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Workplace fun is not enough: the role of work engagement and trust

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Abstract: Research on workplace fun has neither identified the processes through which its positive impact is achieved nor the mechanisms that facilitate it. In the present study we examined the protecting role of five workplace fun dimensions with regard to need for recovery from work, turnover intentions, and chronic social stressors and the mediating role of vigor, dedication and absorption (work engagement). We also explored workplace fun under conditions of high, medium and low trust. The study was a cross-sectional survey. Four hundred and thirty-three employed individuals working in various professions in Greece participated by filling in an online questionnaire. Convenience sampling was used. A series of hierarchical regression analyses and mediation and moderation analyses showed that work engagement dimensions (vigor, dedication, and absorption) mediate the impact of organic workplace fun and management support for fun on turnover intentions, chronic social stressors and need for recovery from work. A significant interaction effect of trust for the relationship between different types of workplace fun and the outcomes measured was found. Our study shows that the relationship of workplace fun with favorable outcomes can be explained by fluctuations in work engagement and is stronger when trust levels are sufficient.

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Fun in the workplace is a relatively new construct in organizational psychology. To date the majority of research on fun at work has related types of fun like organic, organized and managed to only a small number of organizational variables like work engagement, job satisfaction and turnover intentions (e.g., Fluege-Wolff, 2014; Tews et al., 2014). The mechanisms through which these results are achieved and the circumstances that can facilitate these processes are not yet fully understood (Michel et al., 2019). Thus, there is a need to further study the outcomes of workplace fun, and understand the explaining mechanisms that are involved.

1. The current study
The aim of the present study was to examine the impact of workplace fun on desirable outcomes and explore the factors that mediate and moderate these relationships.

In order to explore the relationship of workplace fun with desirable outcomes we utilized the suggestion of several researchers in the field, and conceptualized workplace fun as a job resource (Fluege, 2008; Georganta, 2012; Georganta & Montgomery, 2016; Tews et al., 2013). Our conceptualization of job resources is rooted in the Job Demands-Resources Model (Demerouti et al., 2001), which is a model used to describe the variables that have an impact on wellbeing in the workplace. According to this model, job resources are described as the physical, psychological, social, or organizational aspects of the job that are functioning through work engagement in achieving work goals, reducing job demands or stimulating personal growth, learning, and development (Schaufeli & Bakker, 2004). Conceptualized as a job resource, we hypothesized that workplace fun may function as a preventive or protective mechanism affecting outcomes in a positive way (Georganta & Montgomery, 2016). Specifically, in this study we explored the role of workplace fun with regard to turnover intentions, chronic social stressors and need for recovery from work, as these are three key outcomes that impact the modern workplace.

This process though is not direct. We hypothesized that work engagement will be vital in the relationship between fun and desirable outcomes, as it is an important process that explains relationships between variables in the context of the Job Demands-Resources Model. If workplace fun is indeed a factor that can have a positive impact on these outcomes and ameliorate their development, we assume that this will confirm its protecting role and will be explained via the path of work engagement.

Furthermore, we explored workplace fun in relation to trust. According to the literature, whether workplace fun is supported by management is considered an important factor that can have a significant impact on positive outcomes (Tews et al., 2013). At the same time there is a critical view in the literature in terms of the effects of managed fun that highlights the risk of employees perceiving management initiatives with cynicism (e.g., Fleming, 2005). Based on this, we aimed to explore whether fun will impact differently on turnover intentions, chronic social stressors and need for recovery from work, under different conditions of organizational trust (high, medium and low).

In the present study we measured the whole spectrum of fun activities as depicted in the literature using a self-constructed tool synthesizing existing measures of workplace fun and results of previous qualitative studies on the topic. Thus, we were able to test multiple associations contributing to a more efficient understanding of the impact of various types of fun on desirable outcomes. The study is split into two sections; first we developed the conceptualization of fun
activities as a construct and conducted a factor analyses and second, we tested structural relations between fun dimensions and desirable outcomes.

**1.1. Section one: what is workplace fun?**

A review of the various definitions of workplace fun highlights the diversity regarding the conceptualization of the phenomenon. For example, Ford et al. (2003) define a fun work environment as one that “intentionally encourages, initiates, and supports a variety of enjoyable and pleasurable activities that positively impact the attitude and productivity of individuals and groups” (p. 22). McDowell (2004, p. 9) conceptualized a fun climate as one that constitutes of activities like socializing with co-workers, celebrating at work, and having personal freedoms at work and noted that whether such activities are supported by management, is also an important indicator. Strömberg et al. (2009) view workplace fun as a cluster of humor rituals like joke telling, physical joking practices, clowning, and nicknaming; they found that employees used these practices to intentionally create a fun workplace and have labelled these behaviors as organic fun to differentiate it from organized fun or managed fun, which has to do with activities like celebrations, social events, competitions and community involvement (e.g., Chan, 2010; Ford et al., 2003).

So far two clusters of fun types have been suggested and used in the literature; organic fun or coworker socializing and managed fun or fun activities (McDowell, 2004; Tews et al., 2014). Organic fun has to do with fun activities and behaviors stemming from the employees themselves, while managed fun has to do with fun activities initiated by the organization’s management. Measurement has focused on the perceived frequency of fun activities, either organic or managed, but so far there is no study to our knowledge that has studied the whole spectrum of fun activities as depicted in the literature, that includes a broader range of fun activities and a more detailed distinction between those already identified in the literature.

Specifically, organic fun can include activities with playful characteristics like playing around and poking, as well as activities like sharing each other’s stories and joking that gravitate more towards the socializing pole than the playfulness one. Furthermore, previous studies (Georganta & Montgomery, 2019) have found that employees perceived gossiping as fun. As gossip is a very distinct form of sharing stories, we suggest that it should be measured distinctly from other forms of socialization. Gossip reflects small talk and using satire in the interactions which can have a positive impact on individual outcomes (Brady et al., 2017; Hobfoll et al., 2018, 2019). On the other hand, literature suggests that gossip has mixed results and can have both a positive and a negative impact in organizations (Tan et al., 2021).

Also, socializing with co-workers outside of work, has been conceptualized both as personal freedoms and organic fun. But in line with Georganta and Montgomery (2019) we suggest that this could be a form of fun that could be conceptualized inside the boundaries of both organic and managed fun (McDowell, 2004). A new district type of fun, called organized fun (Georganta & Montgomery, 2019), could reveal a potentially distinct impact on desirable outcomes as it has the unique characteristic of both detaching from work itself and still remaining connected with its processes.

Managed fun can also be divided into sub-categories as there are studies that have looked into managed fun as activities celebrating events and milestones (McDowell, 2004) and studies that present managed fun as recreation activities, like trips and contents. Chan (2010) suggested that different activities are oriented towards different targets, either individual or group ones and have distinct goals in terms of desirable outcomes like increasing sense of belonging or building good relationships.

Furthermore, the literature suggests measuring workplace fun in a more holistic way depicting the culture of the organization in relation to fun. Thus previous studies have measured management support for fun (Tews et al., 2014), and global fun and personal freedoms (McDowell, 2004) as a way to study organization level attitudes towards the phenomenon and the concept of culture of fun.
The above conceptualizations show that there is a variety of activities and behaviors that can be considered fun in the workplace, but the literature so far does not offer a clear distinction regarding the functionality of each type of fun. A series of studies from Fleming and his colleagues (2005; Fleming & Sturdy, 2011; Fleming et al., 2009) though indicate that not all types of workplace fun have the same effects on outcomes.

The present study aimed to develop and use a multidimensional measure of fun as there is no measurement so far that measures all aspects of workplace fun.

2. Methods

2.1. Procedure and sample
We collected data using an online questionnaire platform and utilizing a convenience sampling method. The link for the study’s online questionnaire was shared in several social media sites and was published for the wider public through a well-known online newspaper. This online approach to recruiting participants limits our ability to identify non-responders or to assess the response rate.

2.2. Participants
Four hundred and thirty three employed individuals participated in this study (N = 433, M_age = 37.14, SD_age = 9.26, 60% women). All participants were Greek, 40% were single and 64% were married, 50% were professionals and technicians and associate professionals and 45% were clerical support and services and sales workers (International Labor Organization, 2008).

2.3. Measures
Workplace fun: As already noted in the introduction, no previous research has studied the whole spectrum of fun activities as depicted in the literature. Therefore, to provide a comprehensive assessment of workplace fun, we used a self-constructed tool synthesizing existing measures of workplace fun from the literature and data derived from 34 individual interviews which were conducted as part of a previous qualitative study (Georganta & Montgomery, 2019). Our final workplace fun questionnaire contained 20 items and five subscales (i.e., Pure Organic Fun, Fun Special Events, Management Support for Fun, Gossip, Personal Freedoms).

In this paragraph we will explain the procedure and main steps in developing the questionnaire. We started with two validated questionnaires that measured the following elements of workplace fun; celebrating fun, global fun, personal freedoms and socializing with co-workers (McDowell, 2004) and experienced fun (Karl et al., 2007). Specifically, we used all six items from the Socializing with co-workers dimension, five items from the Celebrating dimension, five items from the Personal Freedoms dimension, and two items from the Global Fun dimension of McDowell’s (2005) Fun at Work Climate Scale. We also used the three items developed by Karl et al. (2007) to measure the level of fun experienced at work. In order to more comprehensively measure the phenomenon of fun, we used the results of two qualitative studies that identified workplace fun activities that were not included in the already existing questionnaires. These activities reflected organic fun and social oriented workplace fun (Chan, 2010; Strömberg et al., 2009). Specifically, we have extracted seven concepts from Strömberg et al.’s (2009) analysis of the nature of humour among workers to create seven items depicting organic fun activities in the workplace. Also, we used four examples of the Social-oriented workplace fun category of Chan’s (2010) four “S”s Workplace Fun Framework to generate four items measuring Fun Special Events. Finally, we added ten self-constructed items based on the results of the individual interviews mentioned above (Georganta & Montgomery, 2019). The data collected from the interviews revealed ten items describing workplace fun behaviours not included in already published questionnaires, that further enriched the above measurements. The new items developed, were piloted and refined in terms of understanding and relativeness. These items reflected activities and behaviors related to fun events, management support for fun, organic fun and personal freedoms.
Participants were asked to rate how often the activities occurred in their workplace using a 7-point Likert scale (1 = Never, 2 = A few times a year or less, 3 = Once a month, 4 = A few times a month, 5 = Once a week, 6 = A few times a week, 7 = Every day). The 7 point Likert scale was chosen in order to better capture the variability in responses, and is recommended as the optimal size scale in survey research (Preston & Colman, 2000). This procedure resulted in an initial 42 item questionnaire (see, Georganta, 2017, pp. 108–111 for a detailed description).

We conducted exploratory factor analysis to delineate the core factors in our measure of workplace fun. In order to perform these analyses we used the IBM SPSS 20 Statistical Package. A principal axis factor analysis of the 42 items with oblique rotation (direct oblimin) was employed as we needed to estimate the underlying factors. Based on the literature on the topic correlation between factors should be permitted. Factor analysis was chosen as it represents the most high quality decision when the purpose is to understand the latent variables that account for relationships among the measured variables (Conway & Huffcutt, 2003) while accounting for measurement error (Schmitt, 2011).

2.4. Results of factor and parallel analyses
The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis (KMO = .89). An initial analysis was run to obtain eigenvalues for each factor in the data. Nine factors had eigenvalues over Kaiser’s criterion of 1. In order to make the best possible decision for factor retention we decided to further conduct a parallel analysis (Horn, 1965). Parallel analysis is considered the most correct method for determining the number of factors to retain (Fabrigar et al., 1999). For the Parallel Analysis we used the guide provided by Hayton et al. (2004). Parallel analysis indicated that only 5 factors should be retained (the eigenvalues of factors from the actual data that exceed the random and the 95th percentile eigenvalues from the simulation can be considered to be actual factors present in the dataset). The final solution retained 20 items and is presented in Table 1.

3. Discussion
The aim of this study was to develop a questionnaire measuring workplace fun that integrates a variety of activities and attitudes towards the phenomenon. The results support the allocation of 20 items to five dimensions; (1) pure organic fun (2) special events (3) management support for fun, (4) gossip and (5) personal freedoms. A more complex factor structure could not be retained.

Pure organic fun comprises of behaviors that arise spontaneously, and evolve among individuals without employment of any factors external to the directly interacting parts. Fun special events is a factor related to activities organized by the organization aiming mainly for employee recreation or community benefit. The gossip factors refers to discussing and satirizing colleagues or events that take place in the workplace. Two factors refer to organizational level attitudes towards fun. First, management support for fun refers to attitudes towards workplace fun help by the supervisor. Second, personal freedoms refers to activities that employees can engage to while working. These activities are not directly related to workplace fun, but they can indirectly nurture fun activities. These five dimensions offer a more detailed operationalization of fun allowing research to explore the distinct impact of each factor on desirable outcomes.

3.1. Section two: the protective role of workplace fun

3.1.1. The job-demands and resources model
Workplace fun was conceptualised as a job resource in the context of the Job Demands-Resources Model. The JD-R Model (Bakker & Demerouti, 2007; Demerouti et al., 2001) is a model used to predict employee burnout and engagement. In its core the model describes job strain as the result of a disturbance of the equilibrium between the demands employees are exposed to and the resources they have at their disposal. According to the model, every work environment has unique
| Item | Factor | 1   | 2   | 3   | 4   | 5   |
|------|--------|-----|-----|-----|-----|-----|
| **Factor 1: Pure Organic Fun** |        |     |     |     |     |     |
| Playing around |        | .671 |     |     |     |     |
| Dancing |        | .662 |     |     |     |     |
| Fun behaviors (e.g., pokes, jostles, tickles) | | .600 |     |     |     |     |
| Flirting |        | .490 |     |     |     |     |
| Play games |        | .664 |     |     |     |     |
| Nicknaming |        | .401 |     |     |     |     |
| **Factor 2: Fun Special Events** |        |     |     |     |     |     |
| Competitions |        | .754 |     |     |     |     |
| Participation in social responsibility events | | .708 |     |     |     |     |
| Trips |        | .677 |     |     |     |     |
| Contests |        | .638 |     |     |     |     |
| **Factor 3: Management Support for Fun** |        |     |     |     |     |     |
| My supervisor seems to recognize the need for fun at work | | -.976 |     |     |     |     |
| My supervisor seems to accept fun at work | | -.911 |     |     |     |     |
| My supervisor encourages fun at work | | -.836 |     |     |     |     |
| **Factor 4: Gossip** |        |     |     |     |     |     |
| Comment about your colleagues | | .734 |     |     |     |     |
| Comment about what is happening in your organization | | .660 |     |     |     |     |
| Using satire |        | .438 |     |     |     |     |
| **Factor 5: Personal Freedoms** |        |     |     |     |     |     |
| Access to internet is allowed (social media etc.) | | .642 |     |     |     |     |
| Relaxed dress code | | .620 |     |     |     |     |
| Music is allowed | | .577 |     |     |     |     |
| Taking breaks from work | | .414 |     |     |     |     |

Note. Items that cluster in the same factor appear in bold
characteristics that stem from differences based on the differences among occupations, organizations or groups. These unique characteristics and their interaction are weighted by the individual; when demands are perceived as higher than resources, a health impairment process may be activated leading to increased burnout levels. When resources are plentiful then a motivational process may be activated leading to increased work engagement.

Job resources can refer, among others, to interpersonal and social relations. These types of resources can involve interactions between supervisors and co-workers or among peers, as well as perceived support and a psychologically safe climate. These types of resources can fulfill the basic needs (Deci & Ryan, 2000) for relatedness (Bakker & Demerouti, 2007; Demerouti et al., 2001) and can have a positive impact on employee wellbeing (Lesener et al., 2019). Workplace fun involves a numbers of activities that create a positive work environment (Jyoti et al., 2022; Michel et al., 2019; Tetteh et al., 2022) and thus can be considered a job recourse that can lead to positive outcomes in the workplace by activating the motivational process or by interacting with job demands and inhibiting their negative impact.

Section two of the present study will explore relations and interactions between workplace fun and a series of individual and organizational outcomes showcasing the protecting role of workplace fun.

3.2. Employee turnover and workplace fun
Employee turnover, defined as “the departure of an employee from the formally defined organization” (March & Simon, 1958), has grown in complexity with a large pool of predictors used to study the phenomenon (Holtom et al., 2008), while many new theories and concepts have evolved over a period of time. Its antecedents and its implications for performance have been widely studied in the human resource management literature (e.g., Hancock et al., 2013). In the case of workplace fun, in a series of studies from Tews and his colleagues (Tews et al., 2013; Tews et al., 2014) a negative relation between management support for fun and turnover and socializing with co-workers and turnover was found. Other studies have linked workplace fun to desirable organizational outcomes that can decrease turnover intentions, especially to job satisfaction (e.g., Peluchette & Karl, 2005). Also, Karl and Peluchette (2006) have found that experiencing workplace fun could be linked to lower absenteeism. Some fun activities and management support for fun have been found to be related to affective commitment (Tews et al., 2013) which is also considered an important indicator of turnover (Meyer et al., 2002). Thus, we can expect that fun activities may decrease turnover intentions.

Hypothesis 1: Workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) will be negatively related with turnover intentions.

4. Chronic social stressors
Social stressors consist of social animosities, conflicts with co-workers and supervisors, unfair behavior, incivility and a negative group climate. Dormann and Zapf (2002) have found a relationship between social stressors and social animosities at work with irritation and depressive symptoms. Social or interpersonal stressors are important predictors of other psychological strain variables as shown in the studies of Keashly et al. (1997), and Zapf et al. (2001). Thus we can hypothesize that workplace fun will be negatively related with chronic social stressors, as workplace fun is considered a phenomenon related to positive interpersonal relations (Fluegge-Woolf, 2014).

Hypothesis 2: Workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) will be negatively related with chronic social stressors.
5. Need for recovery from work

Need for recovery from work refers to a person's desire to be temporarily relieved from work demands in order to replenish internal resources (Sluiter et al., 1999) and it is characterized by a temporal reluctance to continue with the present demands or to accept new ones (Sonnenstag & Zijlstra, 2006). A high need for recovery from work implies that work demands that employees face lead to increased strain. Georganta and Montgomery (2016) suggested that if during the work day the employees experience fun, these experiences could act as a resource, replenish the employees' vigor and decrease the need for recovery from work. Thus we assume that workplace fun would reduce the need for recovery from work.

Hypothesis 3: Workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) will be negatively related with need for recovery from work.

6. Workplace fun and work engagement

Literature so far has established a direct connection between workplace fun and work engagement. Plester and Hutchison (2016) were one of the first scholars to link workplace fun with work engagement; through an ethnographic approach that generated rich qualitative data on the issue, they suggested that task related fun enables employees to enjoy their roles and at the same time the opportunity to pursue their tasks for a while and have fun with their coworkers creates a workplace climate that is enjoyable too. Schaufeli and Bakker (2004) defined work engagement as a "positive, fulfilling, work-related state of mind". Work engagement comprises of its core components vigor (i.e., energy, persistence, and willingness to exert effort), dedication (i.e., enthusiasm, inspiration, and perceptions of significance), and absorption (i.e., full concentration and immersion in one's work). But, consistent with the Job Demands and Resources model, we can hypothesize that work engagement (measured using these three distinct dimensions; vigor, dedication and absorption) not only will be a positive outcome of workplace fun, but that it will function as an explanatory mechanism for the effects of workplace fun dimensions on other outcomes. We can hypothesize the following:

Hypothesis 4a: Work engagement (vigor, dedication, absorption) will mediate the relationship between workplace fun dimensions and turnover intentions.

Hypothesis 4b: Work engagement (vigor, dedication, absorption) will mediate the relationship between workplace fun dimensions and chronic social stressors.

Hypothesis 4c: Work engagement (vigor, dedication, absorption) will mediate the relationship between workplace fun dimensions and need for recovery from work.

6.1. The relation between workplace fun and trust

The benefits of trust within organizational settings have been widely studied (e.g., De Jong et al., 2016). According to Kramer (2010) positive expectations about others lead to positive behaviors when interacting with them and in a cyclical way the positive behaviors towards the other can lead to positive expectations; hence, a cycle of positive expectations and actions is created and reinforced. The literature on workplace fun has cautioned against an excessively managerial perspective on fun. Several studies have showed that some employees perceived managed fun initiatives as patronizing (e.g., Fleming, 2005; Fleming & Sturdy, 2011; Plester et al., 2015) or that they aimed at results other than the employees' wellbeing (Waren & Fineman, 2007). Karl et al. (2005) have also found that employees' attitudes regarding the appropriateness and salience of workplace fun were related to trust. Taking into consideration the above, we understand that managed fun has the potential to result in adverse outcomes, as it may be viewed as a burden rather than a resource. Thus we assume that trust can play an important role in the way workplace fun is perceived. Specifically we propose that organizational trust will be related to perceived workplace fun. Plester and Hutchison (2016) found that
workplace fun can contribute to better relationships in the workplace by increasing the feelings of psychological safety through camaraderie, a concept that is built on relationships characterized by trust. Furthermore, managed fun resulting in negative outcomes is possible when the initiative does not reflect the values of the organization or when management is not perceived as benevolent. Opposite results might be generated if respect and dignity are not part of the equation (Fleming, 2005; Owler et al., 2010) or when the needs of the employees are not taken into consideration (Everett, 2011). Thus, we hypothesize that the levels of trust (a phenomenon contingent to the above) will play an important role in the explored relationships, as per below:

Hypothesis 5a: Trust will moderate the effects of workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) on turnover intentions.

Hypothesis 5b: Trust will moderate the effects of workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) on chronic social stressors.

Hypothesis 5c: Trust will moderate the effects of workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms) on need for recovery from work.
Hypothesis 5d: Trust will moderate the effects of workplace fun dimensions (pure organic fun, fun special events, management support for fun, gossip and personal freedoms on work engagement (vigor, dedication, absorption).

We depict the mediation and moderations effects in Figures 1 and 2 respectively.

7. Methods
In this survey we assessed workplace fun, turnover intentions, chronic social stressors, need for recovery from work, vigor, dedication, absorption, trust and demographic information.

Procedure, sample and participant information can be found in section one of this paper.

7.1. Measures
Workplace fun: Information for this measurement can be found in section one of this paper.

Turnover intentions: Turnover intentions were assessed with the following two questions; (1) “I am actively searching for another job” rated with a 5-point Likert scale (1 = Completely disagree, 2 = Disagree, 3 = Neither agree nor disagree, 4 = Agree, 5 = Completely agree) and (2) “How often do you think that you want to quit your job” rated with a 7-point Likert scale (1 = Never, 2 = A few times a year or less, 3 = Once a month, 4 = A few times a month, 5 = Once a week, 6 = A few times a week, 7 = Every day).

Chronic Social Stressors: Chronic interpersonal tensions with colleagues (e.g., conflicts, personal animosities, or unfair behavior) were assessed with a scale created by Frese and Zapf (1987). Participants rated 17 items using a 5-point scale ranging from 1 (not at all) to 5 (very much). An example item is “With some colleagues there is often conflict”.

Need for recovery from work: Need for recovery from work was assessed with the translated Van Veldhoven (2003) version of the Van Veldhoven and Meijman Dutch questionnaire for the Questionnaire on the Experience and Evaluation of Work (VBBA) (1994). The questionnaire consists of 11 items. The participants were asked to report the frequency of symptoms using a 4-point scale (1 = never, 4 = Always). An example item is “I find it difficult to relax at the end of a working day”.

Work Engagement was assessed with the Utrecht Work Engagement Scale (Schaufeli et al., 2002). The measurement consists of three subscales, vigor (6 items), dedication (5 items) and absorption (6 items) which were measured with a 7-point Likert scale (1 = Never, 2 = A few times a year or less, 3 = Once a month, 4 = A few times a month, 5 = Once a week, 6 = A few times a week, 7 = Every day). Reliability for the total measurement was Cronbach’s α = 0.95. An example item is “When I get up in the morning I feel like going to work”.

Trust: Trust was assessed with the scale developed by Nyhan and Marlowe (1997). The scale consists of 4 items. The participants were asked to report their level of trust using a 7-point Likert scale (1 = Nearly zero, 2 = Very low, 3 = Low, 4 = Moderate, 5 = High, 6 = Very high, 7 = Near 100%). An example item is “The level of trust between supervisors and workers in this organization is”.

8. Results

8.1. Analysis strategy
To test hypotheses 1-3 first we conducted a series of hierarchical regression analyses using the IBM SPSS 20 Statistical Package. To test hypotheses 4a-4c we conducted a mediation analysis and to test hypotheses 5a to 5d we conducted a moderation analysis. For both the mediation and moderation analyses we used the method provided by Preacher and Hayes (2004) and the SPSS PROCESS macro provided by Hayes (2012).
| Variables                              | M    | SD   | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |
|----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1. Fun pure organic                    | 3.87 | 1.15 | (82) |      |      |      |      |      |      |      |      |      |      |      |
| 2. Fun special events                  | 1.44 | 0.64 | .16* | (80) |      |      |      |      |      |      |      |      |      |      |
| 3. Management support for fun         | 3.02 | 1.05 | .52**| .22**| (93) |      |      |      |      |      |      |      |      |      |
| 4. Gossip                              | 4.44 | 1.63 | .49**| .11* | .19* | (74) |      |      |      |      |      |      |      |      |
| 5. Personal freedoms                  | 3.01 | 0.93 | .32**| .14**| .38**| .18**| (68) |      |      |      |      |      |      |      |
| 6. Turnover intentions                 | 2.59 | 1.31 | −.28**| −.13*| −.24**| .01  | −.07 | (67) |      |      |      |      |      |      |
| 7. Chronic social stressors            | 2.19 | 0.85 | −.27**| −.08 | −.47**| .15**| −.14*| .43**| (93) |      |      |      |      |      |      |
| 8. Need for recovery from work        | 2.34 | 0.53 | −.14**| −.02 | −.18**| .09  | −.12**| .32**| .39**| (80) |      |      |      |      |      |
| 9. Vigor                               | 5.30 | 1.32 | .24**| .16**| .25**| −.04 | .10**| .49**| .35**| −.36**| (86) |      |      |      |      |
| 10. Dedication                        | 5.00 | 1.69 | .17**| .19**| .23**| −.10**| .11**| .53**| .36**| −.33**| .83**| (93) |      |      |      |
| 11. Absorption                        | 5.15 | 1.38 | .19**| .15**| .23**| −.04 | .10**| .47**| −.10**| −.17**| .81**| 77** | (85) |      |      |
| 12. Trust                             | 4.47 | 1.20 | .38**| .15**| .43**| −.06 | .22**| .45**| −.67**| −.25**| .38**| 38** | .35**| (87) |

Note. **. Correlation is significant at the 0.01 level (2-tailed). *. Correlation is significant at the 0.05 level (2-tailed).
|                | Turnover | Chronic Social Stressors | Need for recovery from work | Vigor | Dedication | Absorption | Trust |
|----------------|----------|--------------------------|----------------------------|-------|------------|------------|-------|
| **Age**        | −0.26(0.01) | 0.01(0.00) | −0.05(0.00) | 0.27(0.01) | 0.23(0.01) | 0.20(0.01) | 0.01(0.01) |
| **Gender**     | 0.07(0.13) | 0.08(0.08) | 0.02(0.06) | −0.01(0.14) | −0.05(0.17) | 0.00(0.15) | −0.10(0.12) |
| **Fun Pure Organic** | −0.25(0.07) | −0.22(0.05) | −0.15(0.03) | 0.27(0.08) | 0.22(0.10) | 0.21(0.08) | 0.35(0.07) |
| **Fun Special Events** | −0.07(0.10) | 0.10(0.07) | 0.02(0.05) | 0.10(0.11) | 0.15(0.14) | 0.08(0.12) | 0.02(0.10) |
| **Fun Management Support** | −0.21(0.07) | −0.46(0.05) | −0.10(0.03) | 0.16(0.08) | 0.18(0.10) | 0.17(0.08) | 0.29(0.07) |
| **Gossip**     | 0.12(0.04) | 0.36(0.03) | 0.20(0.02) | −0.18(0.05) | −0.23(0.06) | −0.14(0.05) | −0.29(0.04) |
| **Fun Freedoms** | 0.10(0.07) | 0.02(0.05) | −0.06(0.03) | 0.02(0.08) | −0.03(0.10) | 0.03(0.08) | 0.06(0.07) |
| \( R^2 \) (\( \Delta R^2 \) ) | .18 (.13) | .35 (.33) | .06 (.06) | .18 (.14) | .18 (.14) | .13 (.11) | .31 (.28) |

Note. ** t is significant at the 0.01 level (2-tailed). * t is significant at the 0.05 level (2-tailed)
Hypotheses 1–3

In Table 2 the means, standard deviations, correlation coefficients and Cronbach’s alpha statistics of the variables included in the study are depicted.

Hypotheses 1–3 can be partially accepted. As depicted in Table 3 Pure Organic Fun and Management Support for Fun, significantly predicted variance in Turnover Intentions. Gossip also

Table 4. Significant results of mediation analyses

|                  | b   | 95% BCa CI       | \( \kappa^2 \) | 95% BCa CI       |
|------------------|-----|------------------|----------------|------------------|
| 6a. Turnover intentions |     |                  |                |                  |
| Pure Organic Fun x Vigor | -.13 | [-.207, -.070]   | .12            | [.062, .174]     |
| Pure Organic Fun x Dedication | -.10 | [-.171, -.043]   | .10            | [.040, .159]     |
| Pure Organic Fun x Absorption | -.08 | [-.146, -.035]   | .08            | [.031, .124]     |
| Management Support for Fun x Vigor | -.15 | [-.224, -.083]   | .12            | [.069, .180]     |
| Management Support for Fun x Dedication | -.10 | [-.169, -.043]   | .10            | [.041, .156]     |
| Management Support for Fun x Absorption | -.08 | [-.140, -.039]   | .08            | [.034, .122]     |
| 6b. Chronic Social Stressors |     |                  |                |                  |
| Pure Organic Fun x Vigor | -.06 | [-.091, -.028]   | .08            | [.040, .121]     |
| Pure Organic Fun x Dedication | -.05 | [-.085, -.022]   | .07            | [.031, .113]     |
| Pure Organic Fun x Absorption | -.04 | [-.075, -.016]   | .05            | [.022, .098]     |
| Management Support for Fun x Vigor | -.05 | [-.080, -.024]   | .07            | [.034, .111]     |
| Management Support for Fun x Dedication | -.05 | [-.084, -.024]   | .07            | [.033, .112]     |
| Management Support for Fun x Absorption | -.04 | [-.071, -.015]   | .05            | [.023, .097]     |
| 6c. Need for Recovery from Work |     |                  |                |                  |
| Management Support for Fun x Vigor | -.04 | [-.062, -.022]   | .08            | [.044, .122]     |
| Management Support for Fun x Dedication | -.15 | [-.230, -.077]   | .13            | [.066, .189]     |
| Management Support for Fun x Absorption | -.12 | [-.193, -.057]   | .09            | [.048, .151]     |
Figure 3. Simple slopes equations of the regression of turnover intentions on pure organic fun at three levels of trust.

Figure 4. Simple slopes equations of the regression of turnover intentions on management support for fun at three levels of trust.
Figure 5. Simple slopes equations of the regression of chronic social stressors on management support for fun at three levels of trust.

Figure 6. Simple slopes equations of the regression of need for recovery from work on fun special events at three levels of trust.
predicted variance in Turnover Intentions but with a positive valence. Age remained a significant predictor of variance in Turnover Intentions, in step 2 (H1). Pure Organic Fun and Management Support for Fun significantly predicted variance in Chronic Social Stressors, while Special Fun Events and Gossip predicted variance in Chronic Social Stressors but with a positive valence (H2). Pure Organic Fun significantly predicted variance in Need for Recovery from Work while Gossip predicted variance in need for recovery from work with a positive valence (H3).

Hypotheses 4a-c
Hypotheses 4a-c were partially supported. As depicted in Table 4 there were significant indirect effects only of Pure Organic Fun and Management support for fun on Turnover intentions and Chronic Social Stressors through Vigor, Dedication, and Absorption. Also, there were significant indirect effects of Management support for fun on Need for recovery from work through Vigor, Dedication, and Absorption.

Hypotheses 5a-d
Hypotheses 5a-d can be partially accepted. We found a significant interaction effect of trust for pure organic fun and turnover intentions ($b = .13, 95\% \text{ CI } [.048, .211], t = 3.11, p < .05, R^2 = .17$) and management support for fun and turnover intentions ($b = .11, 95\% \text{ CI } [.007, .205], t = 2.11, p < .05, R^2 = .18$; see, Figures 3 and 4 for the simple slopes graphs) (H5a).

Also, there was a significant interaction effect of trust only for the relationship between management support for fun and chronic social stressors ($b = .08, 95\% \text{ CI } [.024, .135], t = 2.83, p < .05, R^2 = .50$; see, Figure 5 for the simple slopes graphs) (H5b). In terms of need for recovery from work, there was a significant interaction effect of trust only for the relationship with Fun Special Events
Table 5. Summary of simple slopes analyses

| Model                                      | b     | t     | p     |
|--------------------------------------------|-------|-------|-------|
| Turnover intentions                        |       |       |       |
| Pure organic fun x High levels of trust (+1SD) | -.26  | -3.02 | .003  |
| Pure organic fun x Low levels of trust (−1SD)  | .06   | .86   | .393  |
| Management support for fun x High levels of trust (+1SD) | -.19  | -1.91 | .057  |
| Management support for fun x Low levels of trust (−1SD)  | .06   | .73   | .465  |
| Chronic social stressors                   |       |       |       |
| Management support for fun x High levels of trust (+1SD) | -.28  | -5.52 | .000  |
| Management support for fun x Low levels of trust (−1SD)  | -.08  | -1.68 | .095  |
| Need for recovery from work                |       |       |       |
| Fun special events x High levels of trust (+1SD) | -.30  | -3.73 | .000  |
| Fun special events x Low levels of trust (−1SD)  | .04   | .64   | .525  |
| Management support for fun x High levels of trust (+1SD) | -.11  | -2.87 | .004  |
| Management support for fun x Low levels of trust (−1SD)  | .01   | .19   | .85   |

(b = .14, 95% CI [.057, .226], t = 3.28, p < .001, R2 = .10) and management support for fun (b = .05, 95% CI [.008, .091], t = 2.32, p < .05, R2 = .09; see Figures 6 and 7 for the simple slopes graphs) (H5c). There was no significant interaction effect of trust for the relationships between workplace fun and vigor, dedication or absorption (H5d). A summary of simple slopes analyses is depicted in Table 5.

9. Discussion
In this study we found that pure organic fun and gossip were significant predictors of turnover intentions, chronic social stressors, need for recovery from work, work engagement and trust. Management support for fun predicted all variables except from need for recovery from work. Fun special events predicted chronic social stressors and dedication. Furthermore, we found a significant indirect effect of pure organic fun on turnover intentions and chronic social stressors through vigor, dedication and absorption. We also found a significant indirect effect of management support for fun on turnover intentions, chronic social stressors, and need for recovery through the same three dimensions of work engagement. These two results confirm our hypothesis that the relationship between workplace fun and desirable outcomes is mediated by work engagement.

As trust plays an important role in organizations and different levels of trust might affect the perception of fun from a positive experience to a coercive task we found that for different levels of trust, fun categories had different results. Specifically, trust was examined as a moderator of the relations between workplace fun and turnover intentions, chronic social stressors, need for recovery from work and work engagement. We found that in the cases of low and medium levels of
trust pure organic fun was helpful in decreasing the levels of turnover intentions, but in high levels of trust fun dimensions were found to increase turnover intentions. The same relationship is observed for management for fun. The same pattern is observed for the relationship of special fun events and management support for fun and need for recovery from work. In terms of chronic social stressors there were significant interaction effects of management support and chronic social stressors in different levels of trust but there was no difference in terms of valence, i.e. management support for fun decreased chronic social stressors in all three levels of trust.

9.1. Fun functions through engagement
According to the Job Demands and Resources model, fun as a job resource will impact on positive outcomes through work engagement. Our study supports previous findings on the impact of fun on work engagement (Plester & Hutchison, 2016; Tsaur et al., 2019) and found further support that work engagement is an important process that can explain the relationship found between management support for fun, and pure organic fun with turnover intentions, chronic social stressors and need for recovery from work. Work engagement is an important factor in the workplace as it has been connected with perceived health, well-being, and positive social relationships (Schaufeli et al., 2008) and the vigor component has proven to be especially important in explaining why employees give effort at work (Robinson et al., 2004).

9.2. The role of trust
Trust was taken into consideration very early in the history of studying workplace fun, as a series of studies showed that low levels of trust in the organizations’ intentions for promoting workplace fun can lead to cynicism (Fleming, 2005; Fleming & Sturdy, 2011; Plester et al., 2015). The negative side of workplace fun was evident in this study. If we would like to analyze the concept a bit deeper, being able to have fun in the workplace entails feeling free and safe to express oneself and reveals a background of trust. There is an interesting paradox concerning the experience of fun. Making “fun” of someone can be enjoyable and bonding for the actor and their co-actors but might have negative consequences for the person receiving the fun comments or being the epicenter of the negative jokes. This highlights an issue to take into consideration, that is, that the line between bullying and fun can be a thin one. In order to understand the negative side of fun, important issues regarding fun need to be disentangled, especially regarding organic fun and its manifestations, as they are those inherent to human nature. Different behaviors that entail organic and organized fun should be recognized. Most importantly, the emotions that follow the experience of organic versus organized fun should be distinguished.

10. Different types of fun

10.1. Managed fun
Our study also offers an insight into the distinct functions of the various types of workplace fun. The results confirm that managed fun in the form of special fun events or fun related freedoms does not have a significant impact in organizational outcomes. As the literature so far suggested, managed fun has limited impact due to its sometimes forced character and as Plester et al. (2015. p. 383-384) noted “intentionally attempting to create workplace fun runs the risk of backfiring, chasing fun away and creating instead discomfiture, ridicule and dismay”. Only one fifth in Plester et al.’s (2015) study’s respondents claimed to enjoy this category of fun and the negative comments for workplace fun that were mentioned were mostly for this category. Waren and Fineman (2007) found that fun activities were interpreted and experienced by the employees in ways that contradict a simple analysis of fun; some participants debunked or subverted the instruments of fun, while for others the very existence of a fun program seemed to contribute to their feelings of wellness, and being valued. Also, Fleming (2005) argues for a model of fun that does not compromise dignity and respect, (2005, p. 300). In this context “fun” emerges unpretentiously out of a culture of basic assumptions that rest support and ownership with each individual employee. Our study offers an insight into these relationships by showing the moderating role of trust.
10.2. Gossip
While we could hypothesize positive effects of such interactions, in our study we found only a negative impact. The most observable negative aspects of gossip is the damage it can do to relationships and to the reputations of other persons and their stature in the workplace (Kurland & Pelled, 2000) and it has been connected with the turnover of valued employees (Danziger, 1988), which was confirmed by this study too. Several types of fun, like small talk, that includes gossip, may be developed out of the employees’ frustration and their need to control a situation. Negative gossip that might come out of these talks could be a maladaptive way of controlling the demands of a workplace. In a recent study, negative gossip was positively associated with burnout, in terms of emotional exhaustion and depersonalization and negatively related to work engagement (Georganta et al., 2014). Gossip can be used to express some of the deepest emotions about others (Waddington, 2005) and it has been considered as a form of emotional support and a way to relieve stress (Waddington et al., 2005).

10.3. Management support for fun
Management support for fun was measured in this study, as one variable that reflects underlying assumptions (Owler et al., 2010), of the organization towards fun. As expected, underlying assumptions are the most important and consistent predictor of workplace fun. Leadership style and support is crucial for encouraging workplace fun. The literature suggests that a “transformational leadership” style is effective for managing employees (Bass, 1999). Such a leader provides a clear vision, inspires and motivates, offers intellectual challenges, and shows real interest in the needs of the workers. This kind of leader elevates the personal status of workers through his or her ability to demonstrate humility, values, and concern for others, which is the benevolent leadership style that can enhance the impact of fun. The result for this leadership style in workplace fun is often that employees develop greater trust in management and perceive fun initiatives as management efforts to support their wellbeing while respecting them, both of which are factors that are strongly associated with the effectiveness of workplace fun.

11. General discussion
This is one of the first attempts, to our knowledge, to include such an inclusive view of fun and enhances previous work on the topic that uses mainly measurements of organic and managed fun. Our study has used a newly developed 20-item questionnaire measuring five dimensions of workplace fun; (1) pure organic fun (2) special events (3) management support for fun, (4) gossip and (5) personal freedoms. The impact of these five dimensions on employee turnover, chronic social stressors and need for recovery from work was explored, confirming our hypothesis that workplace fun can function as a job recourse. Further, we found support for our mediation hypotheses indicating that workplace fun functions through work engagement and our moderation hypotheses showed that fun can have an important impact when levels of trust are low.

Our results support those of previous studies that show that fun can function as a job resource thus activating a motivation process through work engagement as well as protecting against job demands.

11.1. Limitations and suggestions for future research
The cross-sectional design of our study means it is difficult to attribute causality between the variables. While the design of the study does not allow for causal interpretations, findings highlight the link between fun and engagement. This relationship should be further explored by future studies using longitudinal designs. In addition more research is needed to identify which specific dimensions of fun are affected and affect organizational variables, which mediators explain them and which moderators might have an impact. This study assessed workplace fun using a more comprehensive measure that was a collation of previous questionnaires on the topic and of new items developed for this study. Our new measure is a strength of the study and utilized a factor identification technique (i.e., parallel analysis) that is highly recommended but rarely used in psychology. However, future research should focus on establishing a questionnaire that
encompasses the multidimensional nature of fun for further use. All constructs were assessed via self-reports, which raises concerns that results may have been biased by common method variance. Given the recent emphasis on the role of enjoyment and positivity in the workplace, future studies should consider workplace fun within that framework while including team related variables as potential correlates for workplace fun both in traditional and hybrid workplaces.

12. Conclusions
Workplace fun emerged as a job resource, contributing with a significant positive impact on and through work engagement. Our results suggest that higher levels of positive fun interactions with colleagues create a positive environment where engagement can flourish. This is especially relevant given the shift toward team-based work environments (LePine, 2003) taking into consideration that engagement and positive mood can cross over from one person to another (Fredrickson, 2001). Management can benefit from this interpersonal transmission by promoting positive interactions by setting up social events which may help this transfer. But perceived superficiality of expensive “fun at work” initiatives, particularly when other requests were not granted, as evident in this paper will not lead to desirable results. The results of this study show which types of fun can lead to desired results but more importantly highlights the path to them through increased vigor and trust revealing that workplace fun can have a significant impact on work engagement and turnover intentions, outcomes which are greatly sought by today’s employees as a means to increase performance and reduce retention. Caution should be taken thus to the organization’s intentions when promoting workplace fun activities, as initiatives can lead to cynicism when not employee centered. Trust is a precondition for fun initiatives to be considered appropriate and at the same time fun can help build trust in co-workers, supervisors and the organization. Finally, the results show that bottom up approaches combined with management support should have significant impact in terms of creating a work environment in which people can have fun while trusting each other.

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