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Abstract

Workplace bullying has negative effects on targets' well-being. Researchers are increasingly aware that bullying occurs within social contexts and is often witnessed by others in the organization, such as bystanders. However, we know little about how bystanders' responses influence outcomes for those exposed to bullying. In this multilevel study, involving 572 employees within 55 work groups, we explore how bystanders' passive (e.g., inaction) and active constructive (e.g., defending the target) responses to bullying can affect targets' somatic symptoms and work engagement. Drawing from Job-Demands Resource theory, we propose that passive and active constructive bystanders can worsen or buffer bullying's effects on these well-being outcomes respectively. Specifically, we propose that passive bystanders can act as further demands for targets to cope with, leading to demand accumulation, while active constructive bystanders can act as resources. We found that exposure to workplace bullying was associated with somatic symptoms and low work engagement. The number of passive and active constructive bystanders in the target's work group moderated the relationship between exposure to bullying and engagement. In particular, with larger numbers of passive bystanders the negative relationship of bullying exposure with engagement strengthened. Conversely, with a higher number of active constructive bystanders, bullying's negative relationship with engagement was mitigated. However, there was no moderating effect for somatic symptoms. This study contributes as the first empirical test of whether bystander behavior shapes the consequences of bullying for targets and provides a novel, group-level perspective to the bullying bystander literature.

Keywords: Workplace bullying, bystander, engagement, somatic health

Does bystander behavior make a difference? How passive and active constructive bystanders in the group moderate the effects of bullying exposure

Introduction

Organizations are inherently social domains where employees interact during the course of their work. While many interactions are positive and can lead to beneficial outcomes, such as cohesion and belongingness (e.g., Spehar et al. 2016; Tekleab et al., 2009), there are also cases where interpersonal stressors emerge. One such stressor is workplace bullying, a social issue that researchers have identified as associated with many negative individual- and organizational-level consequences (Hoel et al., 2020; Mikkelsen et al., 2020). In an emerging body of literature, researchers (e.g., Reich & Hershcovis, 2015) have demonstrated the relevance of the social context when it comes to forms of workplace mistreatment, such as bullying. The idea is that bullying occurs within a social context and it is important to understand the role of group members who witness bullying (bystanders) in order to tackle it. In line with this developing literature, practitioners are beginning to adopt these ideas in the form of bullying bystander training, which typically seeks to educate potential bystanders, with a view to encouraging them to adopt behaviors that should support the well-being of targets of bullying (Niven et al., 2020; Scully & Rowe, 2009).

To date, most research in this area has focused on describing bystanders' reactions to mistreatment, for example, conceptualizing different behavioral reactions to witnessing bullying (e.g., Paull et al., 2012), and trying to identify factors that affect which behavior bystanders adopt (e.g., Hershcovis et al., 2017). An assumption underlying both this research and the work of practitioners is that bystander responses will shape the experiences of targets. However, while effects of bystander behavior on targets of workplace bullying have been theorized (e.g., Ng et al., 2019), empirical evidence is surprisingly lacking.

The present study aims to investigate how bystander behaviors, within the context of the work group, can shape the effects of bullying experiences on targets' well-being outcomes. We focus in particular on the well-being outcomes of somatic symptoms and work engagement, which are two focal outcomes of the theoretical model that we adopt in this research, the Job Demands Resources model (JD-R; Demerouti et al., 2001; Schaufeli & Taris, 2014). Drawing on the JD-R model, we propose that workplace bullying is a demand (e.g., Hoprekstad et al., 2019) that can lead to negative consequences for employees' somatic symptoms and work engagement – and that the behaviors enacted by bystanders in the work group can influence the severity of those effects. Specifically, we propose that active constructive bystanders, who enact behaviors involving confrontation of the perpetrator or helping the target, act as resources. As such, when there is a greater number of active constructive bystanders in a target's work group, the relationship between exposure to bullying and engagement and somatic symptoms ought to be buffered. Conversely, passive bystanders, whose behaviors amount to “doing nothing”, are conceptualized as a further demand that compounds the negative impact of bullying. Accordingly, when there is a greater number of passive bystanders in a target's work group, the negative effects of exposure to bullying and engagement and somatic symptoms ought to be intensified.

Our study contributes to the literature in several ways. First, we bring to attention to the important role bystanders can play in helping or worsening target experiences, a topic that has come into recent focus (e.g., Sprigg et al., 2019). Bystanders are not, as traditional research typically implies, exclusively passive agents, but can express a range of responses to influence the progression of bullying. This serves to reinforce the social nature of bullying and that it is a problem expanding beyond the target-perpetrator dyad.

Second, our study contributes to understanding of the JD-R model by exploring the culminative effects of multiple demands at different levels of analysis. While empirical

research on the JD-R model has typically focused on the employee-level of analysis, Bakker and Demerouti (2017) have called for researchers to consider the group context in which employees work. Moreover, whereas research typically focuses on the Demand x Resource interaction, these scholars also called for extending the theory by further understanding Demand x Demand interactions, as demands rarely exist in isolation (Bakker & Demerouti, 2017). Here, we examine how the relationship between the demand of bullying and well-being outcomes can be moderated by two distinctive responses at the level of the work group: active constructive bystander behaviors (a resource) and passive bystander behaviors (a demand).

Workplace bullying

Workplace bullying is defined as “harassing, offending, or socially excluding someone or negatively affecting someone’s work” (S. Einarsen et al., 2011, p. 22), in a persistent manner over an extended period (Rai & Agarwal, 2018). A wide range of behaviors can constitute as bullying, including spreading gossip about the target, ignoring or excluding the target, and playing practical jokes at the target’s expense (Notelaers et al., 2019).

Bullying shares many core features with other forms of workplace mistreatment (Herscovis, 2011), but its latter two definitional characteristics, persistence and long duration, differentiate workplace bullying from other negative interpersonal acts such as workplace violence or aggression. It is also a dynamic process, which scholars describe as a “vicious circle”: as time goes on, mistreatment towards the target become more frequent and severe, often affecting work and relationships outside the perpetrator-target dyad, further isolating the victim (K. Einarsen, et al., 2020; Leymann, 1996; Ng et al., 2020; Zapf et al., 2011).

Workplace bullying can have adverse effects on targets, which is unsurprising, given that repeated and sustained exposure to bullying behaviors can wear down one's resolve (Hogh et al., 2011). Studies suggest that targets experience various indicators of psychological strain, including somatic health complaints, chronic fatigue, low self-esteem, and irritability (Hogh et al., 2011; Moayed et al., 2006). When compared with non-bullied groups, Vartia's (2001) study on the Finnish workforce found that targets reported higher general stress and mental stress reactions, while also being over five times as likely to regularly use sleep-inducing drugs. Bullying is also related to cardiovascular disease; studies indicate that individuals who are bullied are twice as likely to suffer from cardiovascular illness compared to non-bullied samples (e.g., Xu et al., 2019). In terms of cognitive well-being, researchers have also found that bullying negatively affects employees' work engagement, by frustrating basic needs (Rodríguez-Muñoz et al., 2009; Trépanier et al., 2015) and violating their psychological contracts (S. Einarsen et al., 2016; Park & Ono, 2017; Rai & Agarwal, 2017).

Moving beyond the individual target, workplace bullying can also harm the wider organization, particularly if such behaviors are endemic and normalized. Absenteeism, lower commitment, presenteeism, and turnover have been associated with workplace bullying, which can have indirect effects on performance (e.g., Hoel et al., 2011). All these outcomes may lead to financial consequences, particularly if litigation is involved; for example, Kline and Lewis (2019) estimate that bullying and harassment in England's National Health Service costs the taxpayer approximately £2.3 billion (approximately US\$3 billion) annually.

Though many organizations and societies recognize the ill-effects of bullying for employees and their organizations and have committed to initiatives intending to prevent bullying (Hershcovis et al., 2015; Zapf & Vartia, 2020), it is unfortunately still a relatively common occurrence. Reviews and meta-analyses suggest that prevalence levels may range

from 11.8% to 20%, depending on methodologies used and contexts studied (e.g., Nielsen et al., 2010; Zapf et al., 2011). Thus, it is clear workplace bullying is a serious issue that must be better understood.

Workplace bullying bystanders

Traditional research has taken a narrow focus to understanding workplace bullying, focusing on target experiences, where the “epicenter” of harm occurs (e.g., Nielsen et al., 2008; Plopa et al., 2017; Tuckey & Neall, 2014). In the nascent research considering bystanders as part of the workplace bullying process, an important early focus was on how bystanders may experience outcomes congruent to targets, such as stress and psychological harm, albeit to a lesser extent (e.g., D’Cruz & Noronha, 2011; Totterdell et al., 2012; Vartia, 2001). However, more recently scholars have offered a more nuanced conceptualization of bystanders as independent agents who can influence the workplace bullying situation (Ng et al., 2019). Under this perspective, the focus moves away from how bystanders themselves are affected by witnessing bullying and towards seeking to understand how they respond behaviorally.

In particular, researchers note that bystanders may enact a range of behavioral responses to workplace bullying, such as intervening to try to stop bullying, doing nothing, or supporting the perpetrator and even ostracizing targets (Coyne et al., 2019; Mulder et al., 2016). These insights build on work in areas adjacent to workplace bullying, such as school bullying, sexual harassment, and other workplace mistreatment literatures, which have recognized a range of bystander responses for some time (e.g., Bowes-Sperry & O’Leary-Kelly, 2005; Salmivalli, 1999; Twemlow et al., 2004). In describing the range of responses in workplace bullying, we draw from Paull and colleagues’ (2012) typology of bystander

behaviors, which proposes that bystanders can respond in ways that are either active or passive *and* constructive or destructive.

Passive bystander behaviors are those that do not address the bullying. While passive constructive bystanders recognize that the bullying is harmful and may feel sympathetic, they ultimately do nothing; in contrast, passive destructive bystanders simply ignore the bullying altogether. Although these two types of responses diverge in the sense that the bystander's perceptions of the bullying and the attention paid to it are different, the actual behavior enacted, from an external perspective (such as that of the target or perpetrator), is the same, i.e., doing nothing. Thus, for the purposes of the present study, wherein we focus on how bystanders' responses shape the effects of bullying for targets, both response types can be amalgamated into a single category of passive bystander behavior. Passive responses are commonplace when witnessing negative social situations more broadly, as established in the body of social psychology research documenting the so-called "bystander effect" (Darley & Latané, 1968). Workplace bullying research has likewise shown substantial evidence that witnesses behave in a seemingly passive manner (e.g., Rai & Agarwal, 2017; van Heugten, 2011). Similarly, the literature on workplace sexual harassment documents the prevalence of passive responses; in a study of 198 sexual harassment cases in Australia, at least 132 (66%) involved some kind of passive bystander response (McDonald et al., 2016).

In contrast, active behaviors are those that address the bullying, either constructively, through seeking to improve the situation for the target, or destructively, through seeking to worsen the situation for the target. Although destructive bystander behaviors have been discussed, e.g., in Omari's (2010) study describing bystanders laughing in response to bullying behaviors, here, we focus on active constructive behaviors as they offer an avenue to aid interventions to reduce bullying's negative effects. For example, bystanders who enact active constructive responses are thought to play an important role in preventing incidents of

conflict and violence from escalating (Lassiter et al., 2018), and evaluations of training in active constructive behavior in school bullying and college sexual violence show evidence of prevention of future victimization (e.g., Nickerson et al., 2014; Salmivalli et al., 2011).

Active constructive behaviors have been documented in qualitative research on workplace bullying, such as van Heugten's (2011; 2010) studies, where targets discussed how active constructive bystanders helped to maintain or boost their self-confidence. They are also widely endorsed in hypothetical vignette studies on workplace mistreatment (e.g., Hershcovis et al., 2017; Vranjes et al., in press) as well as being observed in experimental field studies of customer incivility (Hershcovis et al., 2017).

Though research offers promising evidence on the multifaceted nature of bystander responses, our empirical understanding of the impact that different bystander behaviors have on targets, and our theoretical understanding of why these effects occur, is relatively lacking. In this present study, we draw on the JD-R model (Demerouti et al., 2001) to conceptualize bullying as a demand for targets. We propose that bystander behavior can act as either a resource or a demand to ameliorate or exacerbate the harmful effects of bullying on target well-being, depending on the specific type of behavior that is enacted. The following section will discuss the JD-R Model and contextualize workplace bullying and bystander behavior within its framework.

The JD-R Model

Researchers have long sought to understand the processes behind occupational well-being, including what factors enhance, or worsen, well-being outcomes for employees. The JD-R Model is a popular theory in this vein, used by researchers and practitioners to investigate the causes of well-being in organizational settings (Bakker & Demerouti, 2014).

The JD-R model proposes that across all occupations there are two key sets of factors that influence employees' well-being: Job demands and job resources. On one hand, job demands are the physical, social, or organizational aspects of a job that require employees to exert mental or physical effort (Demerouti et al., 2001). On the other hand, job resources are physical, social, or organizational aspects of a job that help employees to achieve desired goals or stimulate personal development at work (Bakker et al., 2005). The original formulation of the JD-R (Demerouti et al., 2001) held that job demands cause psychological ill-health in the form of burnout – a state characterized by feelings of exhaustion, ineffectiveness and cynicism (Maslach et al., 2001) – due to the sustained mental or physical exertion they incur, while resources serve to buffer the ill-effects of demands because they enable workers to cope with demands.

The revised JD-R (Schaufeli & Bakker, 2004) extended the range of outcomes of demands and resources in two key ways. First, it explained that because burnout can lead to health problems, the impact of demands and resources on burnout would in turn lead to health impairments, such as somatic symptoms. Somatic symptoms describe the physical conditions, such as sleep problems and gastrointestinal issues, that appear alongside, or are a result of, underlying psychological issues like burnout (e.g., Hakanen et al., 2008; Schat & Kelloway, 2003; Simon et al., 1999). Second, the revised JD-R explicitly includes work engagement as a key outcome. Work engagement, which is sometimes considered the antithesis of burnout, refers to a state of vigor, dedication, and absorption an employee feels in relation to work (Schaufeli & Bakker, 2010). While initially conceptualized as an exclusive outcome of job resources (such that greater resources would directly enhance engagement; Schaufeli & Bakker, 2004), recent theoretical and empirical work has shown that engagement is also negatively linked to job demands and hence resources buffer the negative relationship between demands and engagement. For example, Schaufeli and Taris (2014) note that “an

additional assumption should be made that job demands ... are negatively related to work engagement” (p. 56) and refer to a meta-analysis supporting this assumption (Crawford et al., 2010; p. 52).

Researchers have found strong evidence for the core propositions of JD-R – that resources buffer the ill-effects of demands – which can have useful practical applications for organizations who wish to improve employee outcomes and address demands that are difficult to remove completely from jobs. This could be especially salient in cases of bullying, where prevalence rates remain stubbornly high (e.g., Nielsen et al., 2010; Zapf et al., 2011), in part because perpetrators may not be fired or relocated from their original work group and current interventions are not always effective in completely removing bullying behaviors (Escartin, 2016)¹.

While scholars have looked at a variety of demands in relation to the JD-R model, issues remain that may help further our knowledge of how different elements inherent within a job or work environment can influence well-being. This study explores two such issues. First, we propose that workplace bullying can be positioned as a demand in the JD-R model. This proposition contrasts with the majority of research, which has conceptualized bullying as an outcome of job demands (e.g., Baillien et al., 2011), drawing from the “work environment hypothesis” (Leymann, 1996), which proposes that bullying emerges when work characteristics are unfavorable or stressful (S. Einarsen et al., 2011; Leymann, 1993). We argue that bullying can also be viewed as a demand in and of itself. This is because exposure to bullying necessitates the exertion of high levels of cognitive and emotional effort to process and deal with the situation; it is a demanding experience. Our shift towards framing

¹ In Escartin’s (2016) review of intervention studies, 3 of the 8 studies analysed reported no change in bullying post-intervention. Moreover, one study, by Chipps and McRury (2012), noted that bullying *increased* after the intervention, with the researchers hypothesizing that the training may simply have made targets more aware of what constituted as bullying.

bullying as a demand is consistent with the original JD-R theorists, who positioned interpersonal conflicts as a demand within their model (Schaufeli & Bakker, 2004), as well as the work of some recent scholars (e.g., Hoprekstad et al., 2019; Rhee et al., 2017).

Second, we wish to further explore the interactive effect of multiple demands within the context of the JD-R model. It is only recently that key theorists have remarked upon a knowledge gap in understanding how demands interact with each other (Bakker & Demerouti, 2017) and, to our knowledge, very few papers so far explore this topic. Van Woerkom and colleagues (2016) explain this “Demand x Demand” interaction, known as demand accumulation, by drawing on conservation of resources theory (COR; Hobfoll, 1989). COR theory suggests that people seek to conserve their current resources. To cope with demands, individuals must use their available resources, which, if depleted, can lead to greater strain and lower work engagement. When there are more demands to face, individuals expend even more resources to cope, leading to a “resource loss spiral” (Rodríguez-Muñoz et al., 2020). The demand accumulation argument therefore acknowledges that demands can be further exacerbated by additional demands, leading to even poorer well-being. Van Woerkom and colleagues’ (2016) study offers empirical support to this extension of theory, as they found that an interaction between work and emotional demands predicted higher absenteeism (an indicator of strain) among Dutch workers.

The moderating role of bystander behaviors

JD-R researchers frequently recognize the relevance of social aspects of the work environment as either demands (e.g., conflict) or resources (e.g., social support). Moreover, workplace bullying researchers have long theorized that the social environment around the target may affect bullying outcomes (S. Einarsen et al., 2011). Here, we explain how the behavior of bystanders in one’s work group can be understood either as a resource that

enables coping and therefore buffers the effects of the demand of bullying on relevant outcomes, or as a further demand that triggers a resource loss spiral and therefore exacerbates the negative impact of bullying on targets. In particular, we argue that the number of bystanders in a group exhibiting a particular type of behavior may be indicative of norms, such that a higher number indicates stronger norms encouraging said behavior. We focus on the outcomes of somatic health and work engagement, which, as described above, are key states that have been implicated in the JD-R model in its various iterations (e.g., Schaufeli & Taris, 2014). Please refer to Figure 1 for our study's model.

INSERT FIGURE 1 ABOUT HERE

Active constructive bystanders. Drawing from Paull and colleagues' (2012) typology, active constructive behaviors reflect "typical deontic-driven responses of bystanders as saviors" (Ng et al., 2019, p. 1723), who will typically defend the target, intervene directly in the bullying situation, or seek to defuse it. The idea of such responses as being deontic comes from deontic justice theory, which assumes that people will intervene in unethical situations simply because they see moral violations occurring and regardless of consequences (Cropanzano et al., 2001). That is, people will intervene because it is the "right thing to do". Previous conceptual work on workplace mistreatment has elaborated on such perspectives, arguing that witnessing mistreatment elicits intuitions of moral violation, which lead to an emotional response and to justice-based appraisals, and in turn to active constructive behaviors (O'Reilly & Aquino, 2011).

Targets of bullying who are aware of active constructive bystander responses are likely to interpret these as supportive, as such behaviors indicate overt condemnation of

bullying behaviors. The behavior of active constructive bystanders demonstrates that they are allied with the target, who may rely on them to provide extra resources, such as support. For example, a target who sees their colleagues speak out against the perpetrator will know that other people have registered the mistreatment (the intuition of moral violation and subsequent moral anger, according to O'Reilly and Aquino's, 2011, model). Even in cases where targets are unaware of active constructive bystander responses (e.g., if the bystander were to confront the perpetrator at a later point in time when the target was not present), these may serve as a resource that mitigates the demand of bullying, if such responses actually reduce the bullying itself. As Kim (2019) notes, active constructive bystanders can "protect" targets from the worst effects of bullying by disrupting harmful power dynamics and decreasing the frequency or intensity of negative acts. These scenarios suggest that the existence of such bystanders in one's work group may help to buffer the negative effects of bullying as targets have further resources atop their own finite ones. This is likely to be especially true within work groups where the number of active constructive bystanders is high, as this indicates the presence of more powerful norms that support targets and seek to halt the course of the bullying process, which is suggestive of a safe social climate for targets (Kim, 2019; Ng et al., 2019).

As targets can draw upon their active constructive bystanding colleagues as resources, they will have more energy to deal with their mistreatment, particularly in situations where there is a higher number of active constructive bystanders. In this case, targets have an additional, contingent resource to soften bullying's negative impact on their somatic health and work engagement. Therefore, we hypothesize:

Hypothesis 1: The number of active constructive bystanders within the workgroup will moderate the negative relationship between bullying exposure and work engagement, such that the relationship will weaken as the number of active constructive bystanders in the target's work group increases.

Hypothesis 2: The number of active constructive bystanders within the workgroup will moderate the positive relationship between bullying exposure and somatic symptoms, such that the relationship will weaken as the number of active constructive bystanders in the target's work group increases.

Passive bystanders. Passive bystander responses echo those described in Darley and Latané's (1968) "bystander effect", where observers do not offer to help targets and thereby appear apathetic from the external perspective (e.g., that of the target or perpetrator of bullying). There are several explanations as to why bystanders may enact this behavior. Following Ng and colleagues' (2019) model, bystanders who appraise that the situation is not serious enough to warrant intervention, or who believe the target "deserves" the mistreatment somehow, or who do not believe they are sufficiently efficacious to intervene, are likely to respond passively to bullying. In O'Reilly and Aquino's (2011) model, bystanders who have appraise themselves as having low power (who therefore may fear retaliation) and an avoidance motivation are also likely to "do nothing". Other researchers have implicated ambiguity as a major driver for passive bystander behavior, including in the original bystander apathy studies (e.g., Darley & Latané, 1968) and influential theories on bystander behavior in sexual harassment (Bowes-Sperry & O'Leary-Kelly, 2005).

Targets who perceive passive responses from those around them may feel they have no one to turn, creating a further demand in addition to bullying. For example, interviewed targets discussed how colleagues who "withdrew" (i.e., did nothing) made them feel more isolated and vulnerable (Lewis & Offord, 2005), in part because targets appraise neutral (i.e., passive) bystanders negatively, as silently supporting the perpetrator (D'Cruz & Noronha, 2011; S. Einarsen et al., 2011). In some cases, targets reported that their colleagues' inaction was "worse than the bullying itself" (Paull et al. 2012, p. 357). Targets may feel betrayed by their colleagues, particularly if they had positive relationships prior, and may wonder if their

colleagues think the bullying is justified. Even neutral or passive behaviors may be interpreted by targets as tacitly supporting the perpetrator, which can lead to further distress (Leymann, 1996). In interviews conducted by D’Cruz and colleagues (2016), targets even reported feeling like passive bystanders may have “enjoyed” observing the mistreatment. Targets may even begin to doubt the reality of their own victimization, questioning whether or not they are being bullied at all or have misinterpreted the situation. As such, targets are likely to expend energy trying to understand their colleagues’ responses (“Was I just being too sensitive?” or “Do my colleagues not care?”).

Targets in such situations therefore not only need to draw upon their resources to cope with the bullying itself, but also require additional resources to understand and contend with their colleagues’ inaction. As such, the passive responses of colleagues in one’s work group can be seen as a further demand that exacerbates the original demand of the bullying (i.e., demand accumulation; van Woerkom et al., 2016). A greater number of passive bystanders in a group may indicate stronger norms that condone or diminish bullying behaviors. Thus, the negative impact of bullying is further worsened by an additional, contingent factor, much like the resource loss spiral noted by past researchers (Rodríguez-Muñoz et al., 2020).

Accordingly, we hypothesize that:

Hypothesis 3: The number of passive bystanders will moderate the negative relationship between bullying exposure and work engagement, such that the relationship will strengthen as the number of passive bystanders in the target’s work group increases.

Hypothesis 4: The number of passive bystanders will moderate the positive relationship between bullying exposure and somatic symptoms, such that the relationship will strengthen as the number of passive bystanders in the target’s work group increases.

Method

Procedure and sample

The study was conducted among employees at a large Dutch university as part of an undesirable behavior assessment commissioned by the organization. While the present study focuses on workplace bullying, work engagement, somatic symptoms and the behavior of bullying bystanders, the organization requested inclusion of questions on other negative behaviors, such as sexual harassment, which are not reported in this paper. The ethics of the study's protocol was ratified by the Norwegian Centre for Research Data.

Data were collected through a cross-sectional, online survey, which was sent to 4836 employees. Of these, 1257 employees (26%), who worked across 238 workgroups, completed the questionnaire. Given our focus on bystander behaviors within the context of work groups, we only selected work groups where six or more participants completed the questionnaire. This threshold was selected with both statistical and theoretical considerations in mind. Theoretically, bullying is often conceptualized as a less common phenomenon (e.g., Zapf et al., 2020), and with our interest in the influence of the behavior of bystanders in the group, we wanted a minimum group size large enough to feasibly capture bullying and bystander behavior. Statistically, to estimate a random slopes model for analysis, there must be a sufficient within-level observations to ascertain variation in the exogenous and endogenous variables. Due to bullying's low endorsement, there may be a lack of variation if there are only one or two observations per group, hence the need for a higher group threshold. Setting six in particular as the threshold allowed us to maintain over 50 higher level units, which is a recommended minimum as lower numbers at the higher level can lead to biased estimates of standard errors (e.g., Maas & Hox, 2005). We retained 55 workgroups comprising of 572 respondents as our final sample.

Our final sample had an average age of 42 years ($SD = 12.8$), were majority female (62%), and were nested in 55 teams with a mean size of 10.4 members ($SD = 4.37$; range = 6-24). Over half (55%) held academic positions in the university, with the rest holding administrative support roles. In comparison analyses, we found that participants in our final sample were more likely to be women ($\chi(2) = 29.34, p < .001$) and in administrative positions ($\chi(101) = 338.17, p < .001$) compared to total population in the university ($n = 4836$). However, there were no significant differences between the two groups in age ($t(4835) = -.441, p > .05$).

Measures

Due to the multinational nature of the university, measures were applied in both English and Dutch. We used existing validated measures and their translations for the workplace bullying, engagement, and somatic symptoms measures. The university's translation services provided forward and backward translation services to ensure accuracy in translations for the bystander behavior items, which did not have validated translations.

Exposure to workplace bullying ($\alpha = .88$). Participants' exposure to bullying was measured using the Short-Negative Acts Questionnaire (SNAQ; Notelaers et al., 2019), adapted from the original Negative Acts Questionnaire (S. Einarsen et al., 2009; S. Einarsen & Raknes, 1997). This 9-item scale lists common bullying behaviors, such as "Devaluing of your work and efforts" and "Social exclusion from co-workers or work group activities". Participants indicated the frequency that they experienced these behaviors in the past six months by answering a 5-point Likert-type scale (1 = 'Never'; 5 = 'Daily').

Active and passive bystanders in the group. To measure the number of active and passive bystanders of workplace bullying in the group, we first identified participants among the sample who were possible bystanders. Past work suggests that researchers should be

careful not to conflate target and bystander experiences (i.e., bystanders who are also targets themselves) when studying workplace bullying as this may be a significant confounder in examining bullying's effects (e.g., Nielsen & Einarsen, 2013; Salin & Notelaers, 2018; Sprigg et al., 2018). To address these potential confounding issues, we excluded anyone who had been exposed to any degree of bullying-type behavior from answering questions regarding their bystander experiences. Accordingly, only participants who reported "never" experiencing all items of the S-NAQ were considered as possible bystanders for the purposes of this study as they could be confidently classed as "non-targets".

We asked the "non-target" participants to indicate the number of people in their team who were subjected to the bullying behaviors listed in the S-NAQ. Those who reported one or more members of the team as having been subjected to the S-NAQ behaviors were assumed to either be witnesses to bullying or perpetrators, given their awareness of bullying in the group. They were therefore routed to a survey item asking how they responded to the negative behaviors by choosing one of four options. The first two options represented the two types of bystander responses we were interested in studying: the passive bystander response ("I kept out; in other words, I remained passive") and the active constructive bystander response ("I tried to prevent this type of behavior or even stop it"). The remaining two options were included to account for the possibility of those aware of the bullying behaviors having enacted either an active destructive bystander response ("Someone else initiated this type of behavior and I went along with it"), or even being the perpetrator themselves ("I initiated this type of behavior").

For participants who did not identify with any of those response types, we included a fifth option, which was an open text box for participants to input other responses. As responses were in both Dutch and English, Dutch responses were translated and coded by a member of the research team who was fluent in both languages. The translated responses

were then independently coded by another member of the research team. Responses were coded into the original categories, with examples from Paull and colleagues' (2012) typology used as criteria for coding. The interrater agreement was 96.78%, with all but one of the responses being agreed on. The single case of disagreement was resolved through discussion among the research team.

In total, 179 of the 572 participants were routed to complete the bystander behavior item. Of these, 135 participants reported one or more people in the workgroup having been exposed to bullying-type behaviors. Following coding of the open-text responses, 1 participant was deemed not to be a witness. As no participants reported being a perpetrator of the bullying-type behaviors, this means that, in total, 134 out of the 179 participants (74.9%) who had not been personally exposed to any bullying-type behaviors had witnessed some degree of bullying in their workgroup. Of these bystanders, 56 participants (41.8%) reported an active constructive response and 78 (58.2%) reported a passive response. None reported an active destructive response.

Somatic symptoms ($\alpha = .79$). The survey measured somatic symptoms with the 10-item Flemish Work Monitor (Bourdeaud'hui et al., 2004). Participants were asked to indicate whether they had experienced certain health complaints in the past two weeks using a dichotomous response scale ("No" = 1, "Yes" = 2), with mean scores calculated across the item set. Sample somatic complaints include "trouble falling asleep" or headache".

Work engagement ($\alpha = .94$). Work engagement was measured using the shortened 9-item Utrecht Work Engagement Scale (UWES-9; Schaufeli et al., 2006), which was adapted from the original 17-item UWES (Schaufeli et al., 2002). Participants responded to each item on a 7-point Likert-type scale (1 = "Never", 7 = "Every day"). Sample items include "I feel happy when I am working intensely" and "At my work, I feel bursting with energy".

Control variables. We controlled for age and gender in our analyses, as previous research has shown these factors to relate to somatic health outcomes and engagement (Camgoz et al., 2016; Eriksen et al., 1999; Mastenbroek et al., 2014). Our analysis also controlled for organizational position (academic vs. administrative role) due to the differences in job characteristics and expectations of both positions.

Analysis

Preliminary analyses were conducted using IBM SPSS 25. Analyses were conducted using hierarchical linear modelling as this would account for the dependent nature of measurements at the lower level (Hox, 2002). That is, because our participants were nested within workgroups, variance in their well-being might be accounted for both at the individual and group level of analyses. A confirmatory factor analysis (CFA) was run to check that items we measured conformed to the expected factor structure.² Study hypotheses were then tested using MLwiN v. 3.02 using stepwise estimation of different models (Charlton et al., 2017).³ Both independent (workplace bullying) and dependent (somatic symptoms and engagement) variables were individual-level variables, while the moderators (number of active constructive and passive bystanders in the group) were at the group level (Level 2).

We repeated the following analysis procedure for each outcome variable. We first built an intercept-only model (Model 0) and then another model with the covariates added (Model 1), then added workplace bullying as a predictor (Model 2; Rasbash et al., 2009). We next built a random intercept-slope model (Model 3), which allows the relationship between

² We first ran a multilevel CFA to acknowledge the nested nature of our data; however, this did not converge, likely due to the large number of no within-cluster variation variables. We therefore report a within-level CFA.

³ We considered the use of alternative statistical programs that would allow for multiple outcomes within the same model; however, because we found a lack of intercept variance for somatic symptoms in the first step of our analyses (see below, Model 0), a multivariate analysis approach was not warranted.

workplace bullying and the outcome in question to vary across work groups. We then began exploration of our moderators. We added the main effects of both moderators in turn (Model 4 for number of active constructive bystanders and Model 5 for number of passive bystanders). Then, in order to test the moderation hypotheses, we added cross-level interactions separately (Model 6 for passive bystanders*bullying and Model 7 active constructive bystanders*bullying), which controlled for any between-level interactions that may exist in the data (Enders & Tofighi, 2007; Hofmann & Gavin, 1998).

We tested the multivariate significance of effects in each step by computing the increase in model fit compared with the previous step. The increase in model fit is represented by the decrease of the Δ -2 loglikelihood statistic (-2LL), which follows a χ^2 distribution and describes the model's deviance, or unexplained variance, which should decrease as we build our model. We also calculated R^2 values after each step, focusing on the *within* and the *between* part of the variances explained each time a variable was added into the model (Snijders & Bosker, 1994). R^2 values describe, usually in percentages, how much the current model explains the data, and can be used to show improvement of fit as variables are added to the model. As our moderators were between-group variables (i.e., they represented the number of active/passive bystanders in a work group), we would expect them to explain between group variance in our outcome variables.

Our primary criteria for accepting a hypothesis were to establish significant variance terms at the between level, and to observe a significant cross-level interaction term (e.g., number of passive bystanders in a group*bullying) at $p < .05$, with the interaction taking the hypothesized form. To explore the form of our moderation effects, slopes were plotted using Preacher and colleagues' (2006) hierarchical linear modelling tools. Interactions were all plotted at ± 1 standard deviation of the moderator (Bauer & Curran, 2005).

Results

Preliminary analyses

The CFA, in which we specified a three-factor model (exposure to bullying, somatic health, work engagement), showed good fit, $\chi^2(347) = 1127$, RMSEA = 0.063 (0.059; 0.067), CFI = 0.979, TLI = 0.977, SRMR = 0.070, which was superior to the fit of a two-factor model in which we combined somatic health and work engagement as a single factor, $\chi^2(349) = 2131$, $p < .001$. Table 1 presents the means, standard deviations, and correlations of all study constructs and covariates of gender, age, and organizational position. There was a significant, moderate correlation between work engagement and somatic symptoms ($r = -.408$, $p < .05$), indicating that the two constructs are negatively related to one another, but not highly so, indicating satisfactory discriminant validity. Participants reported that the average amount of exposure to bullying was relatively low over the past six months ($M = 1.33$; $SD = .52$).

INSERT TABLE 1 ABOUT HERE

We tested the effects of exposure to bullying on both outcomes in Model 2 of each of the models we built up. As can be seen in Tables 2 and 3, respectively, for the engagement and somatic symptoms models, exposure to bullying was a significant predictor of both outcomes. Exposure to bullying was negatively related to work engagement, explaining 13.8% of the variance in the model ($B = -.88$, $p < .001$), and positively related to somatic symptoms, explaining 16.8% of variance ($B = .18$, $p < .001$). The following sections will discuss the results of hypothesis testing, in which we examine the moderating effects of active constructive and passive bystander responses on the above relationships.

INSERT TABLES 2 AND 3 ABOUT HERE

Moderating effect of active constructive bystander responses

Hypotheses 1 and 2 proposed that active constructive bystander responses will moderate the negative relationship of bullying with work engagement (H1) and the positive relationship of bullying with somatic symptoms (H2), such that both relationships will weaken as the number of active constructive bystanders increases in the target's work group. These predicted effects were tested in Model 7 of each of the models we built up (in Table 2 for engagement and Table 3 for somatic symptoms).

With respect to the outcome of work engagement, when we added the active constructive bystander*bullying interaction in Model 7 (final column of Table 2), the between level slope and intercept variance in work engagement were both significant. The cross-level interaction observed for the number of active constructive bystanders in the group on the relationship between bullying and engagement was also significant ($B = .16, p < .05$). There was also a decrease in the Model's -2LL, indicating that addition of the interaction term improved model fit.⁴ Figure 2 illustrates the direction of the moderation at +1 and -1 SD the number of active constructive bystanders in the group, showing that as expected, targets who had more active constructive bystanders in their workgroup showed a weaker negative

⁴ The improvement in fit was not quite significant ($\Delta -2LL = -3.31, p = .07$), most likely because here we were testing additional improvement in fit over and above the cross-level interaction of passive bystanders in the group, as reported below.

association between exposure to bullying and work engagement than those with fewer active constructive bystanders. On this basis, we accept Hypothesis 1.

However, for the outcome of somatic symptoms, when we added the active constructive bystander*bullying interaction in Model 7 (final column of Table 3), there was no variance explained at the between level, and there was no significant cross-level interaction for the number of active constructive bystanders in the group on the relationship between bullying and somatic symptoms ($B = .003, p > .05$). As such, Hypothesis 2 was not supported.

INSERT FIGURE 2 ABOUT HERE

Moderating effect of passive bystander responses

Hypotheses 3 and 4 predicted that passive bystander responses will moderate the negative relationship between bullying and work engagement (H3) and the positive relationship between bullying and somatic symptoms (H4), such that both relationships will strengthen as the number of passive bystanders increases in the target's work group. These predicted effects were tested in Model 6 of each of the models we built up (in Tables 2 and 3).

With respect to the outcome of work engagement, when we added the passive bystander*bullying interaction in Model 6 (penultimate column of Table 2), the between level slope and intercept variance in work engagement were both significant. Furthermore, a significant cross-level interaction was observed for the number of passive bystanders in the group on the relationship between bullying and engagement ($B = -.28, p < .05$). There was

also a significant decrease in the model fit when the interaction term was added (change = -4.67, $p < .05$), meaning that the addition led to a better model fit. Figure 3 illustrates the direction of the moderation, showing that, as expected, targets who had more passive bystanders in their workgroup showed a stronger negative association between exposure to bullying and work engagement than those with fewer passive bystanders. As such, Hypothesis 3 was supported.

Finally, for the outcome of somatic symptoms, when we added the passive bystander*bullying interaction in Model 6 (penultimate column of Table 3), there was no variance explained at the between level. Surprisingly, given this fact, we did observe a significant cross-level interaction for the number of passive bystanders in the group on the relationship between bullying and somatic symptoms ($B = .04$, $p < .05$). However, the lack of between group variance explained, alongside the *increase* in model deviance (indicating poorer fit in comparison to before the interaction term was added), suggests that this significant interaction term may be a spurious effect. Taking these sources of information together, we therefore reject Hypothesis 4.

INSERT FIGURE 3 ABOUT HERE

Discussion

In this study, we examined how different bystander responses can affect the work engagement and somatic symptoms of others in the work group who are exposed to workplace bullying. While previous research has largely established that experiencing workplace bullying leads to significantly poorer health and well-being outcomes (e.g., S. Einarsen et al., 2011), there has been substantially less research on how socio-contextual

factors can affect this relationship. Moreover, research has largely minimized the role of bystanders in influencing this process, though conceptual work has argued that bystanders can enact a variety of behaviors beyond just passivity (e.g., Ng et al., 2019; O'Reilly & Aquino, 2011; Paull et al., 2012).

Drawing from the JD-R theory, we framed workplace bullying as a demand whose negative effects can be modified based on the behavior of fellow group members who witness the occurrence of bullying. We expected that the number of active constructive bystanders (e.g., those who confront the perpetrator) or passive bystanders (e.g., those who do nothing) in the group would buffer or worsen the negative effects of bullying, respectively. We specifically argued that active constructive bystanders serve as a resource, providing more energy for targets to cope with mistreatment. Conversely, we framed passive bystanders as additional demands, as targets would need to expend further resources coping with and understanding why their colleagues seemingly ignored their suffering or unease. The latter hypothesis expands our understanding of how demands interact with each other, which has been largely overlooked in JD-R literature (Bakker & Demerouti, 2017).

Consistent with our expectations, we found that the number of passive bystanders in a group exacerbated the negative relationship between exposure to bullying behaviors and targets' work engagement. These findings are consistent with qualitative research, where targets describe the differential effects colleagues' reactions have on their well-being. For example, Omari's (2007) interviews feature targets recalling how they were "left sitting open-mouthed, feeling embarrassed and ... probably more angry that not one of the other executives in the room acknowledged the [bullying]" (p. 99), indicating that colleagues' passivity increased unpleasant feelings associated with mistreatment. Targets may perceive such inaction as siding with the perpetrator as a "passive accomplice" (Namie & Lutgen-Sandvik, 2010, p. 344), who condones the negative acts or inadvertently empowers the

perpetrator (Van Heugten, 2011). School psychologists echo these findings and report that bystanders who do nothing (i.e., a passive response) are likely to “contribute to the derogation of victims and the cycle of violence” (Padgett & Notar, 2013, p. 35).

We further found that the number of active constructive bystanders in a work group attenuated the negative relationship between exposure to bullying behaviors and work engagement. While there has been little empirical work linking active constructive bystander responses to improving well-being outcomes in targets of workplace bullying, conceptual work often assumes that active constructive bystanders will have a positive effect on targets (e.g., Ng et al., 2019; Paull et al., 2020). Constructive responses are thought to help validate the target’s experiences, which is important as targets try to make sense of subjective and troublingly uncertain behaviors (Volkema et al., 1996). They also can provide further resources to help targets to cope effectively and can even reduce further demands experienced. However, it is important to note that the harmful effects of passive bystanders were stronger on target engagement than the positive effect of active constructive bystander responses. This may highlight how persistently negative the effects of bullying can be, even with the presence of helpful resources (i.e., active constructive bystanders). The strength of passive bystanders’ responses on work engagement is in line with previous qualitative work whereby targets describe colleagues’ passivity as worse than the bullying itself (Paull et al., 2012).

The pattern of findings we observed did not extend to the outcome of targets’ somatic symptoms, suggesting that bystanders may have a stronger influence over certain types of well-being than others. This indicates an important boundary to the potential for interventions focusing on bystander behavior; while the support of colleagues through active constructive bystander responses might encourage those exposed to bullying-type behaviors to maintain engagement in their work, it does not appear to eliminate the possibility of damage to

workers' somatic health. A possible explanation for this is that the JD-R model frames somatic symptoms as a downstream consequence of burnout (Schaufeli & Bakker, 2004), which we did not study in this research. Thus, perhaps it may take longer exposure to bullying to affect one's somatic symptoms or general health, via shorter-term changes in burnout (e.g., Hakanen & Schaufeli, 2012; Innstrand et al., 2011). Future longitudinal research explicitly capturing burnout could test this possibility directly.

Theoretical implications

Our study makes key theoretical contributions to both workplace bullying and JD-R literatures. First, while there is emerging research on third parties in the mistreatment process, which has provided insights into bystanders' perspectives and actions, there has been little work understanding how these actions actually affect targets. Our study is the first, to our knowledge, to quantitatively examine how bystander behaviors within a group can shape target outcomes. This is an important contribution as it provides empirical support to conceptual work seeking to understand target and bystander experiences, which have typically looked at each agent in isolation of the other (e.g., Ng et al., 2019; Parzefall & Salin, 2010). Moreover, the findings provide substance to research and practice that operates on the assumption that bystanders are key stakeholders in addressing the issue of workplace mistreatment (e.g., K. Einarsen et al., 2020; Niven et al., 2020).

Second, our study contributes to a greater understanding of how forms of mistreatment, such as bullying, operate within a group context, which is vital to address given that workplace mistreatment occurs within the inherently social domain of the organization. In bystander research, bystanders are often viewed as independent agents who react in some way to the behaviors witnessed within perpetrator-target dyads. Here, we provide a different

perspective, recognizing that perpetrators, targets, and bystanders operate within work groups, and that the behavior of bystanders as a collective can shape targets' experiences.

Finally, our research sought to understand the interactive effects of demands at different levels, and their effects on well-being outcomes. While past research has mainly focused on how resources can mitigate the stress brought on by demands, recent literature has called for a greater understanding of how demands can worsen the effects of other demands (e.g., Bakker & Demerouti, 2017; Van Woerkom et al., 2016). This study is one of the first to investigate how the influence of one interpersonal stressor, workplace mistreatment, on well-being can be worsened by the demand of passive bystander behavior. By exploring the "Demand x Demand" interaction, we can understand another dimension of how poor well-being develops at work.

Practical implications

Our study shows that active and passive bystander responses can influence the work engagement of those exposed to bullying-type behaviors. These findings provide support to recent calls that bystander behaviors should be included in future interventions, by fostering constructive responses and social support (K. Einarsen et al., 2020). In fact, bystanders may be the "missing link" in developing effective interventions, as previous research suggests that interventions, which typically have a narrower focus, such as on the target or target-perpetrator dyad, have shown very mixed results (Escartín, 2016).

Our findings therefore add weight to the development of more comprehensive interventions that consider bystanders' role in mistreatment and the role of the group context in shaping the outcomes of bullying behaviors. As bystander responses did not have a moderating effect on targets' somatic symptoms in this study, it is important to acknowledge that targets' physical health may still suffer when exposed to bullying behaviors. Thus, there

might be a limit to how effective interventions targeting bystander behavior are with respect to somatic symptoms. However, as a counter to this, it could be argued that by promoting contexts where active constructive bystander behaviors are encouraged, interventions may shape group norms, such that bullying behaviors are recognized and are not tolerated. Over time, this may not just have an effect on buffering the negative effects of mistreatment but might also lessen the occurrence of mistreatment altogether (and thereby minimize damage to workers' health). In support of this assertion, an evaluation of training programs to encourage active constructive bystanders in college campus sexual violence found that interpersonal violence rates decreased 17% among students in the intervention group compared to the control group (Coker et al., 2016).

Interventions that incorporate bystanders may be particularly effective in stopping bullying early in its process, when negative behaviors are more similar to incivility, being generally less frequent, less severe, and more ambiguous (Leymann, 1996; Ng et al., 2019; Notelaers & Van der Heijden, 2019), and when relevant group norms are not yet strongly established. With the introduction of strong group norms in the use of active constructive behavior in response to witnessed mistreatment, bullying may gradually be stopped early on, as suggested in Salmivalli and colleagues' (2011) work.

Limitations and future research implications

Our study has several limitations, which may be addressed in future research. One notable limitation was the cross-sectional nature of the study, which prevents us from making definitive causal conclusions on the ways in which our study variables were related. For example, it could be the case that those with poorer work engagement or greater somatic symptoms are more likely to be targeted with bullying behaviors rather than the reverse. However, it would be difficult to account for the patterns of moderation we observed in

relation to the outcome of engagement with a reverse causal explanation, given that our moderator (bystander behavior) is assumed to be dependent on the occurrence of mistreatment. Nevertheless, the fact that we did not track participants longitudinally means that we could not observe whether the effects of bystander responses on the relationship between bullying behaviors and somatic symptoms are more likely to emerge over time.

Studying the relationships that we observed here longitudinally would not only be more informative about the causal direction of effects, but would also address questions about whether and how bystander behavior changes over time. Theoretical work suggests that because bullying is a dynamic phenomenon where behaviors change over time, the nature and frequency of bystander behavior might also change (Ng et al., 2020). For example, initially helpful bystanders might “pull away” as bullying worsens (e.g., D’Cruz & Noronha, 2011; Zapf et al., 2011). Repeated observations of bystander behavior would also allow researchers to distinguish between bystander behaviors that are frequently engaged, such that they likely represent group norms (e.g., members of the group challenge bullying-type behaviors most or all times that they are witnessed), versus one-off responses, which our current design precludes.

A second limitation is the possibility for biases, such as social desirability, affecting our findings, due to the reliance on self-report techniques, e.g., in reporting bystander behavior. Such biases may explain why no participants reported themselves as perpetrators, despite the clear presence of some bullying behaviors in the organization. An alternative possibility is that perpetrators of the bullying behaviors that were endorsed by the targets in our sample did not elect to participate in this research (which was voluntary), meaning that our sample may not have been representative. A third possibility to explain the lack of perpetrators, however, is that they did not regard themselves as “perpetrators”, owing to the ambiguous intent of bullying (Ng et al., 2020), meaning that the lack of self-described

perpetrators in the sample may not automatically be due to such biases. Future research seeking to address this limitation could control for social desirability or use multisource data, such as asking targets to also report how others have responded when they were exposed to bullying behaviors, for validation purposes.

A further limitation is that our study design did not allow us to tell whether bystanders who reported intervening or not intervening when observing bullying did so in relation to the bullying experienced by targets in our sample. In theory, it could be the case that the events bystanders witnessed and the behaviors they responded with were in relation to targets who were not among our study participants. However, because, as we theorize, bystander behaviors contribute to group norms, it is possible that bystander behavior towards one group member might still shape the effects of bullying for a target to whom the behavior was not directed.

Finally, because this study's survey was part of a wider questionnaire commissioned by a university, we included only shortened established scales to assess our constructs, such as the S-NAQ for bullying, which is a shortened version of the traditional NAQ-R (S. Einarsen et al., 2009). This was done to reduce the likelihood of attrition due to boredom or tiredness. However, the shortened measures used showed good internal reliability and derived from established, popular measures.

Although our study focused on two types of bystander responses, active constructive and passive, the Paull and colleagues (2012) typology that we followed to distinguish between bystander behaviors also identifies other bystander responses. Notably, Paull et al. (2012) distinguish between passive responses that are constructive versus destructive, and also identify that bystanders sometimes engage in active destructive responses, such as laughing or appearing to visibly enjoy the mistreatment (D'Cruz et al., 2016), which in the

work group context might be seen to be part of a “mobbing” process (e.g., Einarsen et al., 2011). There may also be more fine-grained distinctions between behaviors that fall within particular categories within the over-arching typology we adopt. For example, Paull et al. (2012) themselves acknowledge different types of active constructive behaviors, including “defending”, “intervening”, “sympathizing” and “defusing”, which differ according to targets’ likely awareness of the behavior, among other factors. Future research exploring the effects of a broader range of behaviors might therefore provide greater insight into the more differentiated effects of bystander behavior on target outcomes, for example, helping to identify which types of active constructive behaviors are most helpful in mitigating ill-effects of bullying.

Future studies might also wish to incorporate targets as potential bystanders of bullying. In our research, in order to avoid confounding effects (see, e.g., Nielsen & Einarsen, 2013; Salin & Notelaers, 2018; Sprigg et al., 2018), we only studied the bystander behaviors of those who had not been exposed to any form of bullying behavior. However, the bystander behaviors of bullying targets could be a very interesting area to study, as these will also have the potential to influence outcomes for fellow targets. Such individuals might be more likely than non-targeted bystanders to engage in active constructive responses and/or less likely to be passive, due to empathy with fellow targets. Alternatively, they might be less likely to engage in active constructive responses and/or more likely to be passive, due to fear of drawing attention to themselves and being targeted again.

A further extension for future research will be to make a more explicit connection to coping. We suggest a link to coping in our theory development, in the sense that we anticipate that active constructive bystander responses will serve as resources for targets that aid their coping with the demand of bullying, whereas passive responses will require additional coping efforts from targets and thus serve as demands. It may therefore be useful

to study whether different bystander responses influence targets' perceptions of and efforts towards coping, in order to substantiate this implied mechanism. Similarly, explicitly capturing the possible resources provided by active constructive responses (e.g., social support), which aid perceptions of coping, would help to elaborate on the mechanisms underlying the relationships observed here.

Conclusion

Workplace bullying is a harmful social issue that has negative implications for those who are exposed. Scholars have recently called for more work on how bystander responses can influence the way in which workplace bullying affects targets. In establishing that the presence of greater numbers of active constructive and passive bystanders in a work group shapes the relationship between exposure to bullying-type behaviors and targets' work engagement, our study addresses these calls. Our study contributes to our understanding of how socio-contextual factors influence the experiences of targets of workplace bullying and how demands interact with each other to worsen engagement.

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Table 1*Descriptive statistics and correlations (N = 572)*

	Mean	SD	1	2	3	4	5	6	7
1. Gender	1.36	0.48					-0.354*	-0.221	
2. Age	42.00	12.18	0.044				-0.345*	-0.044	
3. Organizational position	1.55	0.50	0.100*	-0.384**			-0.145	0.201	
4. Exposure to bullying	1.33	0.52	-0.041	-0.033	0.015		0.141	0.702*	
5. Number of passive bystander responses in the group (N = 55 groups)	2.04	1.41	-	-	-	-	-	0.086	
6. Number of active constructive bystander responses in the group (N = 55 groups)	1.67	1.68	-	-	-	-	0.086	-	
7. Work engagement	5.64	1.18	0.015	0.154**	-0.058	-0.396**	-0.367*	-0.202	
8. Somatic symptoms	1.30	0.26	-0.110**	-0.097*	-0.017	0.371**	0.210	0.317	-0.408**

Note. ** $p < .01$; * $p < .05$

Gender: 1 = Male; 2 = Female

Organizational position: 1 = Administrative; 2 = Academic

The correlations in columns denoted with 5 and 6 are between-level correlations.

Pseudo R ² between-level intercept (%)	-	38.14	21.65	10.31	10.31	18.45	20.62	20.62
Pseudo R ² between-level slope (%)	-	-	-	-	1.74	- 0.35	17.36	42.18
Pseudo R ² within-level (%)		-0.54	13.83	14.74	14.74	14.74	14.74	14.47
-2*loglikelihood	1711.19	1704.40	1630.71	1605.37	1602.54	1601.44	1596.77	1593.46
Δ -2*loglikelihood		.70	73.69***	25.34***	2.83	1.10	4.67*	3.31

Note. *** $p < .001$; ** $p < .01$; * $p < .05$

WPB: Workplace bullying

Model 0 = Intercept-only model; Model 1 = Intercept and covariates model; Model 2 = Model with predictor (WPB); Model 3 = Random intercept-slope model; Model 4 = Introduction of main effects of number of active constructive bystanders; Model 5 = Introduction of main effects of number of passive bystanders; Model 6 = Cross-level interactions for number of passive bystanders * WPB; Model 7 = Cross-level interactions for number of active constructive bystanders * WPB

Pseudo R ² between-level intercept (%)	-	44.44	5.56%	5.56%	5.56%	5.56%	5.56%	5.56%
Pseudo R ² between-level slope (%)	-	-	-	-	0.00	0.00	100	100
Pseudo R ² within-level (%)	-	1.51	18.47	18.47	18.47	18.47	18.7	18.47
-2*loglikelihood	78.79	67.31	5.68	3.63	2.04	1.79	-1.85	-1.85
Δ -2*loglikelihood		11.48**	1.64***	2.05	1.59	0.24	-3.64	0.00

*** $p < .001$; ** $p < .01$; * $p < .05$

WPB: Workplace bullying

Model 0 = Intercept-only model; Model 1 = Intercept and covariates model; Model 2 = Model with predictor (WPB); Model 3 = Random intercept-slope model; Model 4 = Introduction of main effects of number of active constructive bystanders; Model 5 = Introduction of main effects of number of passive bystanders; Model 6 = Cross-level interactions for number of passive bystanders * WPB; Model 7 = Cross-level interactions for number of active constructive bystanders * WPB

Figure 1

Theoretical model and hypotheses

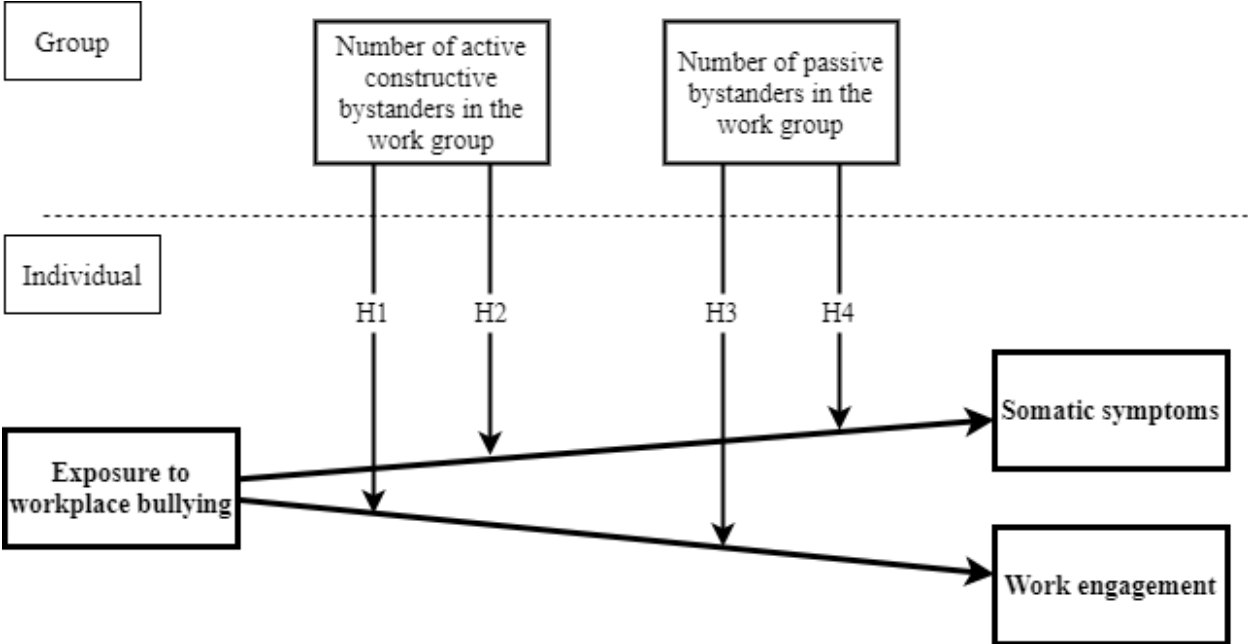


Figure 2

Cross-level interaction between number of active constructive bystanders in the group and exposure to bullying on targets' work engagement

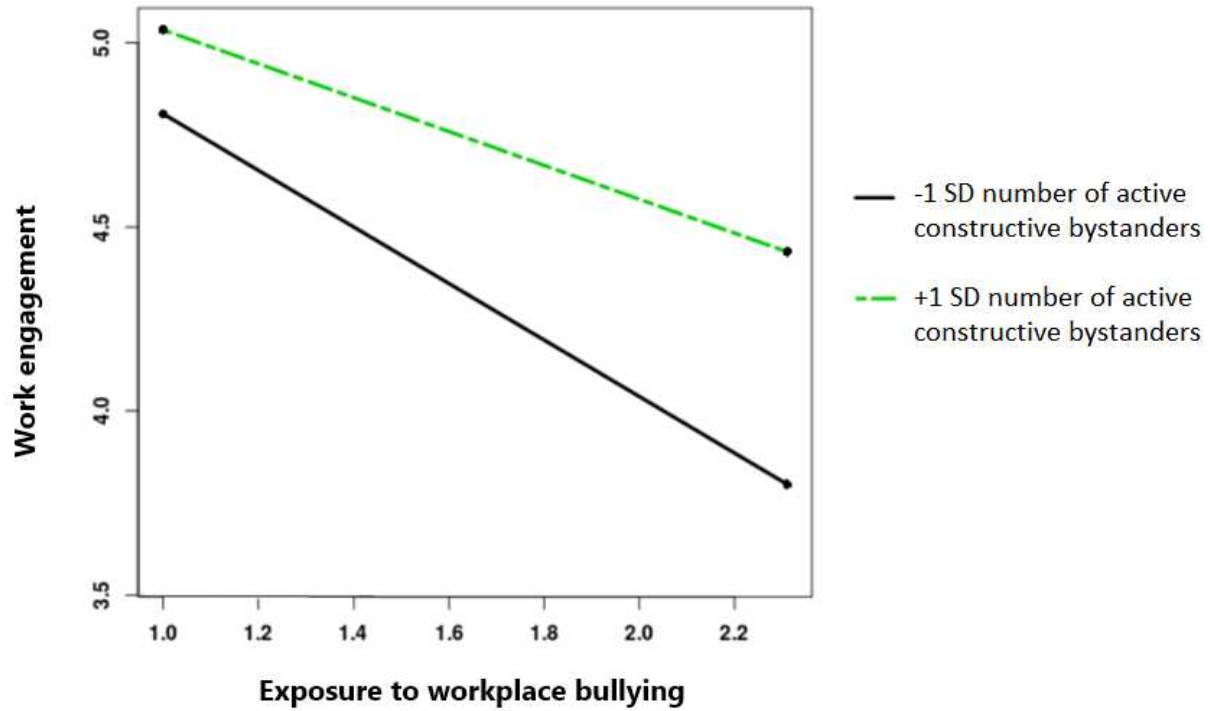


Figure 3

Cross-level interaction between number of passive bystanders in the group and exposure to bullying on targets' work engagement

