This is the peer reviewed version of the following article: Cangiano, F., Parker, S. K., & Yeo, G. B. (2019). Does daily proactivity affect well-being? The moderating role of punitive supervision. Journal of Organizational Behavior, 40(1), 59-72. https://doi.org/10.1002/job.2321

It has been published in final form at https://doi.org/10.1002/job.2321

This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. To reference this article, please use the following citation:

Does Daily Proactivity Affect Well-Being? The Moderating Role of Punitive Supervision

<table>
<thead>
<tr>
<th>Journal:</th>
<th>Journal of Organizational Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuscript ID:</td>
<td>JOB-16-0702.R2</td>
</tr>
<tr>
<td>Wiley - Manuscript type:</td>
<td>Special Issue Article</td>
</tr>
<tr>
<td>Keywords:</td>
<td>Proactive work behavior, Vitality, Punitive supervision, Anxiety, Detachment</td>
</tr>
<tr>
<td>Research Method Keywords:</td>
<td>ESM/Diary study &lt; Research Design</td>
</tr>
</tbody>
</table>

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Does Daily Proactivity Affect Well-Being?
The Moderating Role of Punitive Supervision

Abstract

Proactive behavior (self-initiated and future-oriented actions to bring about change) has largely positive consequences for organizationally-oriented outcomes such as job performance. Yet, the outcomes of proactivity from a well-being perspective have not been clearly considered. Drawing on self-determination theory and the stressor-detachment model, we propose two distinct paths by which proactivity affects individuals’ daily well-being. The first path is an energy-generating pathway in which daily proactive behavior enhances end-of-work-day vitality via perceived competence. The second is a strain pathway in which daily proactive behavior generates anxiety at work, which undermines the process of detachment from work. We argue that these pathways are shaped by the extent to which supervisors are prone to blaming employees for their mistakes (punitive supervision). We tested this model using a sample of 94 employees who completed surveys three times a day for between 5 to 7 days. Our multilevel analyses provide support for the proposed dual-pathway model and suggest differential well-being outcomes of daily proactive work behavior. Overall, when an individual behaves proactively at work, they are more likely to experience higher levels of daily perceived competence and vitality. However, these positive effects can exist in parallel with daily negative effects on end-of-work day anxiety, and hence bed-time detachment, but only when the supervisor is perceived to be punitive about mistakes.

Keywords: proactive work behavior; vitality; anxiety; punitive supervision; detachment.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Introduction

The concept of proactive work behavior (self-initiated, anticipatory and change-oriented) has captivated scholars’ attention for a quarter of a century (Bateman & Crant, 1993; Hindl & Parker, 2011). This is not surprising given the increasing importance that organizations place on such behaviors (Crant, 2000; Parker, 2000). This attention has produced much research on the subject: researchers have explored the antecedents of proactivity (e.g., Clegg, Unsworth, Epitropaki, & Parker, 2002; Parker & Collins, 2010; Parker, Williams, & Turner, 2006), the contingencies that influence proactivity pathways (e.g., Grant & Ashford, 2008; Thomas, Whitman, & Viswesvaran, 2010; Tornau & Frese, 2013), and the consequences for individuals. Regarding the latter, between-person studies show that, compared to non-proactive individuals, proactive employees receive superior performance ratings, are more likely to be promoted, and have more successful careers (e.g., Belschak & Hartog, 2010; Blickle, Witzki, & Schneider, 2009; Crant, 2000; Grant, Parker, & Collins, 2009; Vos, Clippeleer, & Dewilde, 2009).

To date, there has been little work on the well-being effects of proactivity: most research has focused on the desirable outcomes of being proactive, such as its positive consequences for entrepreneurial success (Fay & Frese, 2001), supervisory performance evaluations (Grant et al., 2009), and career progression (Blickle et al., 2009). In contrast, the possible consequences (negative in particular) of proactive work behavior from a well-being perspective have been somewhat ignored. Aside from speculative conceptual papers (Bolino, Valcea, & Harvey, 2010; Strauss & Parker, 2014), little attention has been given to the negative consequences that this behavior might have for employees’ well-being. This gap is noteworthy, because - if proactivity is good for the organization and for an individual’s career, but also harms well-being - the sustainability of this behaving is at risk. Furthermore, to the extent that negative outcomes have been considered, research has primarily focused on

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

the effects of proactive personality (i.e., an individual's disposition to be proactive; Fuller & Marler, 2009). Instead, this paper explores the consequences of daily proactive behaviors and the role that situational contingencies play in shaping these outcomes.

Our goal is to assess the effects of daily proactive work behavior on daily well-being. There has been speculation that proactive behavior can yield beneficial (Strauss & Parker, 2014), detrimental (Bolino, Valcea, et al., 2010), or even double-edged consequences for well-being (Cangiano & Parker, 2015). However, studies attempting to resolve these contradictory arguments are lacking, with just one showing that proactivity predicted cortisol levels, an indicator of arousal, but did not affect job strain (Fay & Hütges, 2016). We test theorizing about the 'bright' and 'dark' side of proactive work behavior for employee well-being by exploring two distinct day-level processes (see Figure 1). We draw upon self-determination theory and the stressor-detachment framework, respectively, to hypothesize two well-being pathways of proactivity: an energy-generating pathway and a strain pathway.

Insert Figure 1 about here

-----------------------------

With respect to the energy-generating pathway, we propose that the nature of proactive behavior generates a sense of vitality in employees. Vitality captures an individual's feeling of aliveness and vigor (Ryan & Frederick, 1997) and is an indicator of positive well-being. We argue that, because it is self-initiated and agentic, behaving proactively contributes to employees' perceptions of competence, which in turn enhances feelings of vitality. We conceptualize this as a relatively fast-acting process because we expect the very act of behaving proactively creates almost immediate feelings of competence, which, in turn, foster the generation of vitality.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

In a co-occurring but slightly longer-term process, and drawing on Sonnentag and Fritz’s stressor-detachment framework (2015), we propose that proactive work behavior can also generate a sense of anxiety and interfere with the process of detachment after work (i.e., unwinding from work demands). Anxiety is an affective experience characterized by feelings of worry and nervousness that can indicate negative well-being (Warr, 1990). We suggest that anxious feelings can linger throughout the day and spill over to impair one’s evening detachment, which is “a state in which people mentally disconnect from work and do not think about job-related issues when they are away from their job” (Sonnentag, 2012, p. 114). Detachment ‘matters’ because it facilitates recovery, or the replenishment of one’s resources that are drained during work (Sonnentag, 2003).

Importantly, we contend that the generation and strain pathways are undermined versus exacerbated, respectively, in the context of a blame-oriented supervisor who reacts negatively to employees’ mistakes (Bolino, Valcea, et al., 2010). When proactivity is initiated in the context of a punitive supervisor, we propose that behaving proactively will undermine one’s sense of competence and exacerbate anxiety, because the context will feel especially psychologically risky for employees and expose them to potential reprimands from the manager (Bolino, Valcea, et al., 2010). Managers have formal power over financial, personnel, and political resources within an organization, so if employees perceive that mistakes are noticed, pointed out or not well-tolerated by their supervisors, this is likely to undermine their potential for feeling competent and to magnify their anxiety when engaging in the challenging and more unpredictable behavior of proactivity.

Our research contributes to this topic in several ways. First, despite little research that has considered the well-being outcomes of proactive behavior, it is an important outcome in and of itself, especially in light of increasing concerns about stress and poor mental health in
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

the workplace (e.g., Dama & Griffin, 1999). In addition, understanding well-being effects
should enhance our capability to support proactivity at work over the longer-term.

A second key contribution of this study arises from our within-person approach, in
which we seek to understand whether and how, if a person is more or less proactive on a
given day, their well-being is affected. Although a within-person approach has been shown to
be important in the study of antecedents of proactive behaviors (e.g., Binnewies, Sonnentag,
& Mojza, 2010; Sonnentag, 2003), it has not been used to investigate its outcomes (with the
exception of Fay & Hutiges, 2016). Yet a within-person approach to understanding
proactivity outcomes is important, and distinct from a between-person approach. Although
meta-analyses suggest that proactive individuals are more likely to receive better
performance evaluations and be satisfied about their job, implying a positive effect on well-
being, such relationships may be different at the within-person level (Thomas et al., 2010). It
is plausible to expect that, on certain occasions, being proactive might not be well-received,
which could impact the individual’s psychological state and potentially harm well-being
(Bolino, Valceca, et al., 2010). Between-person approaches fail to capture such mechanisms,
or the contingencies that affect them. Further, well-being is prone to fluctuations over short
periods of time, and therefore a within-person approach is likely more appropriate than a
between-person approach to unpack the consequences of proactive behavior for this outcome
(Xanthopoulou, Bakker, & Ilies, 2012). We elaborate our theory and hypotheses next, first
describing the energy-generating pathway, and second describing the strain pathway
(Cangiano & Parker, 2015).

An Energy-Generating Pathway of Proactive Work Behavior

Proactive work behavior refers to self-initiated efforts that “focus on taking control of,
and bringing about change within, the internal organizational environment” (Parker &
Collins, 2010, p.636). A defining feature of proactive work behavior is that it is self-initiated

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

and change-focused action: in essence, behaving proactively involves ‘making things happen’. Such behavior is also future-focused: it involves anticipating and thinking ahead, rather than merely reacting to the situation. Research suggests that proactive work behavior is fueled by feelings of autonomous motivation, self-efficacy, and activated positive affect (Parker, Bindl, & Strauss, 2010).

We propose that, on a daily basis, engaging in proactive work behavior generates vitality (i.e., a feeling of energy and aliveness) because it increases levels of experienced competence at work. According to self-determination theory (SDT), humans have an innate desire to experience competence, or the need to be effective and master the environment. This assumption is also prevalent in Ryff’s (1989) conceptualization of well-being, which argues that the ability to master and control one’s environment is beneficial for individuals’ mental health. Due to its discretionary and agentic nature, we propose that engaging in proactive behavior at work will provide fertile ground for employees to perceive themselves as competent in their daily work activities.

There are at least three reasons why proactive work behavior is likely to be important for fulfilling an employee’s competence needs (Strauss & Parker, 2014). First, proactivity is challenging, which means that it can fulfil individuals’ innate desires to feel competent (Massimini & Carli, 1988). Challenging tasks create perceptions of competence because they promote the experience of mastery in one’s environment (Deci & Ryan, 2000). Proactivity often transcends formal job descriptions, which means there are no clear instructions or guidelines to follow (Parker et al., 2010; Strauss & Parker, 2014), enhancing the degree to which it is perceived as a challenging activity. Proactivity is also change-oriented, and trying to bring about change involves challenges such as dealing with the resistance of others (Parker et al., 2010). Moreover, the future-focus of proactivity means that the outcome of this behavior is unknown, again adding to the degree of challenge. Second, we know that

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

proactive behavior often results in positive outcomes that contribute to performance, which
again likely fuels competence perceptions. For instance, attacking a problem before it occurs
likely saves time compared to dealing with it ‘reactively’ after its manifestation. Third,
because proactive behavior is self-initiated, its execution means that the individual can
attribute any positive outcomes to their own personal efforts, which in turn is likely to fuel
the individual’s sense of competence.

Therefore, we expect that proactive behavior provides a vehicle for enhancing one’s
perceived competence at work. A previous within-person study provides indirect support for
this theorizing: in 2012, Fay and Sonnenstag showed that when people have a desire to
experience competence at work, they are more likely to engage in proactive behavior.

Although this effect is about the desire for competence fueling proactive behavior rather than
the reverse, this study’s findings are consistent with the idea that proactivity can serve as a
means to experience competence. It is likely that individuals learn over time that being
proactive fosters their sense of competence, which then means that they will enact proactive
behavior to achieve the feeling of competence. We propose:

Hypothesis 1: Proactive work behavior is positively associated with perceived
competence at the end of the workday, such that individuals perceive a greater sense
of competence on days in which they engage in high levels of proactive work
behavior compared to days in which they behave less proactively.

We further propose that experiencing competence at work affects employees’ vitality,
in an energy-generating process. Self-determination theory proposes that, when individuals
engage in activities that allow them to have their basic need for competence satisfied,
individuals experience a sense of vitality, and, conversely, when this need is thwarted,
individuals experience a lack of energy and suboptimal functioning (Deci & Ryan, 2000;
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Ryan & Deci, 2000). According to Ryff (1989), competence is a core tenet of well-being:
one’s perceived ability to manipulate and control the environment through mental and
physical activities can contribute to mental health. The positive link between competence and
vitality is well established, even being validated across cultures (e.g., Deci et al., 2001;
Milyavskaya & Koestner, 2011). Evidence from experience-sampling studies corroborates
this theorizing. Sheldon, Ryan, and Reis (1996) showed that daily fluctuations in perceptions
of competence were associated with vitality. Similarly, Ryan, Bernstein, and Brown (2010)
found that the greater the sense of competence workers experienced in their daily tasks, the
greater their sense of vitality. We expect that fluctuations in daily proactive behavior will
positively predict fluctuations in vitality. We propose:

*Hypothesis 2*: Perceived competence is positively associated with vitality at the end of
the workday, such that individuals experience higher levels of vitality on days in
which they perceive a high level of competence compared to days in which they have
lower perceptions of competence.

*Hypothesis 3*: Proactive work behavior has an indirect positive effect on one’s vitality
experienced at the end of the workday, through its effect on perceived competence.

A Strain Pathway of Proactive Behavior

We propose that proactivity generates anxiety and interferes with the process of
detachment. We conceptualize this strain pathway as a slightly longer-term process compared
to the energy-generation process. In this pathway, we explore the ‘risky’ nature of
proactivity, and focus on how being proactive could undermine individuals’ well-being after
work (Somentag & Kruehl, 2006).
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Parker et al. (2010) described how the uncertainty, change-focus, and self-initiated features of proactivity result in it being psychologically risky. For example, engaging in proactive behavior often means changing existing work procedures, and this challenging component of proactive behavior means it can be perceived as threatening (Bolino, Valcea, et al., 2010). Indeed, proactive behavior is not always welcomed by organizations and may encounter resistance from others (Frese & Fay, 2001). For this reason, pursuing proactive goals can be perceived as ‘risky’. Unsurprisingly, and related to its risky nature, previous studies have found that a sense of trust in the organization predicts innovative behavior (Clegg et al., 2002), that employee self-efficacy is a crucial determinant of multiple forms of proactivity (e.g., Frese & Fay, 2001; Parker et al., 2010), and employees are more likely to be proactive within organizations that foster a climate that encourages taking risks without repercussions (Baer & Frese, 2003). The future-focus of proactivity also means that the outcome of this behavior is often unknown, and while this may create a motivating sense of challenge in employees, it may also trigger anxiety, such as in relation to negative outcomes that employees may be held accountable for. Anxiety refers to an unpleasant emotional state of high physiological activation (Posner, Russell, & Peterson, 2005). It reflects the tendency for individuals to be easily upset by things that go wrong, and worry or ruminate unnecessarily about unpleasant things which may or may not happen (Eysenck, MacLeod, & Mathews, 1987; MacLeod & Mathews, 2012; Smillie, Yeo, Furnham, & Jackson, 2006). In sum, the psychologically risky nature of proactive behavior means that it could elicit feelings of anxiety in employees.

**Hypothesis 4**: Proactive work behavior is positively associated with anxiety at the end of the workday, such that individuals experience higher anxiety on days in which they...
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

engage in high levels of proactive work behavior compared to days in which they behave less proactively.

We further propose that, when employees experience a heightened level of anxiety at work from behaving proactively, these feelings of anxiety and associated worries—due to the tendency for them to linger or spiral downwards such as in the form of rumination (Fresco, Frankel, Mennin, Turk, & Heinberg, 2002; Mellings & Alden, 2000; Muris, Roelofs, Meesters, & Boomsma, 2004; Segerstrom, Tsao, Alden, & Craske, 2000), can interfere with the individual’s ability to detach from work demands later in the evening. Detachment (an individual’s sense of ‘being away’ from the workplace in their off-work time) is a significant well-being outcome because it a strong predictor of next-day recovery from work demands (Sonnentag, 2003, 2012; Sonnentag & Bayer, 2005; Sonnentag, Binnewies, & Mojsa, 2010; Sonnentag & Fritz, 2015; Sonnentag & Kruehl, 2006; Westman & Eden, 1997), thus, low levels of detachment are a useful indicator of strain or poor well-being. Combining our arguments suggests that engaging in proactive behavior should increase feelings of anxiety over the working day and, in turn, undermine detachment from work in the evening (Sonnentag & Fritz, 2015). Therefore, we hypothesize that:

_Hypothesis 5:_ Anxiety experienced at the end of the workday is negatively associated with detachment in the evening, such that individuals experience lower levels of detachment in the evening on days in which they experience higher anxiety compared to days in which they experience lower anxiety.

_Hypothesis 6:_ Proactive work behavior has an indirect negative effect on one’s detachment in the evening through its effect on anxiety.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Moderating Effects of Punitive Supervision

We argue that the generation and strain pathways will be undermined versus exacerbated respectively, for individuals who perceive that their supervisor is punitive. A punitive supervisor is one who tends to react negatively to and blame employees for mistakes (Hamblin, 1964). Punitive supervision is related to, but the converse of, psychological safety, which is recognized to be important in the context of proactivity (Dollard & Bakker, 2010). Whereas psychological safety is about a positive, safe environment fostered by one’s team members and peers, here we focus more specifically on the role that supervisors play in shaping the extent to which being proactive might undermine perceived competence and engender anxiety. We focus on supervisors because they are in a position of power, which is a status that is likely to undermine the agentic benefits of, and accentuate the psychological risks of proactive action (Detert & Treviño, 2010).

With regard to the energy-generation pathway, we propose that punitive supervision should undermine the agentic benefits of behaving proactively, which will dampen the perceptions of competence that usually flow from behaving proactively (Cangiano & Parker, 2015; Strauss & Parker, 2014). For example, when employees are afraid of possible repercussions and punishment due to their supervisor’s nature, they may be particularly alert to the potential downsides of their actions and associated personal weaknesses if they have voiced their concerns or otherwise behaved proactively (Bolino, Valcea, et al., 2010). In essence, these employees should feel less sure of the consequences of behaving proactively, which will dampen the potential for feeling competent, compared to employees behaving proactively who believe their supervisor is tolerant towards errors. This effect should in turn have downstream implications for vitality experienced at the end of the workday. Therefore, our hypotheses are:

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Hypothesis 7a: Perceptions of punitive supervision moderate the relationship between proactive work behavior and perceived competence at the end of the workday, such that the positive within-person relationship is weaker for individuals who perceive high levels of punitive supervision compared to those who perceive low levels of punitive supervision.

Hypothesis 7b: Perceptions of punitive supervision moderate the indirect effect of proactive work behavior on vitality through perceived competence, such that the positive indirect effect is weaker for individuals who perceive high levels of punitive supervision compared to those who perceive low levels of punitive supervision.

With regard to the strain pathway, we propose that punitive supervision should accentuate the risks of proactivity and thus behaving proactively at work in these contexts should exacerbate anxiety-related feelings (Cangiano & Parker, 2015). For example, when employees are afraid of possible repercussions and punishment due to their supervisor’s nature, they should experience a stronger sense of psychological risk, which should make them particularly anxious if they have voiced their concerns or engaged in other forms of proactivity (Kish-Gephart, Detert, Treviño, & Edmondson, 2009). This effect should in turn have downstream implications for detachment in the evening. Therefore, our hypotheses are:

Hypothesis 8a: Perceptions of punitive supervision moderate the relationship between proactive work behavior and anxiety, such that the positive within-person relationship is stronger for individuals who perceive high levels of punitive supervision compared to those who perceive low levels of punitive supervision.

Hypothesis 8b: Perceptions of punitive supervision moderate the indirect effect of proactive work behavior on detachment through anxiety, such that the negative
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

indirect effect is stronger for individuals who perceive high levels of punitive supervision compared to those who perceive low levels of punitive supervision.

In sum, proactivity is a complex behavior that can potentially be both beneficial and detrimental for employees’ daily well-being. We have proposed that proactive work behavior – by virtue of its agentic, change-focused nature – will generate one’s feeling of vitality that day by enhancing perceptions of competence. However, proactivity might also undermine well-being through different processes. Consistent with Bolino and colleagues’ theorizing of proactivity as a psychologically risky behavior, we have argued that proactive work behavior may also generate anxiety that, in turn, reduces psychological detachment after work. Moreover, we have argued that if one’s supervisor is perceived as punitive, then the generation pathway will be undermined, whereas the strain pathway will be exacerbated, because punitive supervision is expected to dampen the agentic benefits and heighten the psychologically risky nature of proactive work behavior.

Method

Participants

The sample was 94 managers and professionals who worked in a wide range of industries in the public and the private sector. We focused on managers and professionals because these individuals possess a sufficient degree of autonomy in their daily work activities, which is an important antecedent of proactive work behavior (Griffin, Neal, & Parker, 2007; Parker & Collins, 2010). The average age in the sample was 35.3 years (SD = 6.6 years) and 53% were males. Participants had on average 2.5 years of experience in their current job position (SD = 2.6 years), and the average tenure at their current workplace was 4.4 years (SD = 4.2 years). All participants were enrolled in a part-time MBA (Master in Business Administration) at the University of Western Australia.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Procedure

The study was conducted in two phases. In Phase 1, after participants agreed to participate in the study, they were emailed a link to complete an online baseline survey using Qualtrics. This survey assessed employees’ age, gender, tenure, level of education, as well as participants’ perceptions of punitive supervision.

Phase 2 consisted of the daily surveys. The data from these surveys were collected using a survey application (iSurvey or droidSurvey) installed on participants’ own smartphones. In a 20-minute briefing session, participants received instructions on how to download the surveys on their smartphones and when to fill-out the surveys. Participants were asked to respond to three daily surveys over five to seven consecutive working days: within an hour before the beginning of the workday (morning survey), within an hour before the end of the workday (end-of-workday survey) and within 30 minutes before going to bed (bed-time survey).

In total, we collected data from 935 surveys/measurement occasions. Sixty-six surveys were excluded from the analyses because they were either empty or were not completed during the instructed time. Thus, the final sample size comprised 869 surveys (ranging from 8-21 measurement occasions across 3-7 days for the 94 participants).

Measures

Punitive supervision was measured in the baseline survey. All other measures were assessed in the end-of-workday survey, except detachment which was measured in the bedtime survey. As described below, anxiety and vitality were also measured in the morning survey as control variables. This study was part of a larger data collection effort that included other variables beyond those mentioned in this manuscript. The additional data have not been published elsewhere.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

To keep the daily survey length to a minimum and thus minimize survey fatigue in our respondents, we used a subset of two or three items from each scale, consistent with recommendations from scholars conducting ESM studies (Ohly, Sonnentag, Niessen, & Zapf, 2010).

**Proactive work behavior.** We assessed proactive work behavior using the following three items: “Today, I came up with ideas to improve the way in which my core tasks are done”, “Today, I initiated better ways of doing my core tasks”, and “Today, I generated creative ideas.” These items were adapted from Griffin et al. (2007) and were scored on a 5-point Likert Scale from 1 (strongly disagree) to 5 (strongly agree). Instructions indicated that the items were to be answered in relation to work.

**Perceived competence.** The items used to measure perceived competence were adapted from Brien et al.’s (2012) Basic Psychological Needs at Work Scale (BPNWS). Participants reported on their perceptions of competence by responding to the following items: “Today, I felt competent” and “Today, I felt good about how well I carried out my work” on a Likert scale ranging from 1 (to no extent) to 5 (to a very great extent).

**Anxiety.** Anxiety was assessed using the following two items adapted from Warr’s job-related affective well-being scale (1990): “Right now, I feel anxious” and “Right now, I feel worried.” The response scale ranged from 1 (not at all) to 5 (extremely).

**Vitality.** Vitality was assessed using the following three items from the Utrecht Work Engagement Scale (UWES) developed by Schaufeli, Bakker, and Salanova (2006): “Right now, I feel strong and vigorous”, “Right now, I feel alive and vital” and “Right now, I feel energized.” Items were assessed on a Likert scale ranging from 1 (not at all) to 5 (extremely).

**Detachment.** Psychological detachment from work was assessed with two items adapted from Sonnentag, Mojza, Binnewies, and Scholl (2008). An example item is “This
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

evening, I did not think about work at all” on a Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree).

**Punitive supervision.** We developed a three-item measure of this construct to capture the extent to which employees’ perceive their supervisor as blame-oriented. Individuals were asked how their supervisor reacts to subordinates’ mistakes and errors on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). The items were: “My supervisor gets angry or upset with staff if they make a mistake”, “My supervisor takes responsibility away from staff if they make a mistake” and “My supervisor blames staff personally if things go wrong”. The set of items was intended to capture exemplar forms of punitive supervision that apply across different jobs and hierarchical levels (consistent with the nature of our sample).

To provide evidence of validity of this measure, we sought to show that the construct was internally consistent and related, albeit factorially distinct, from similar constructs such as transformational leadership, developmental leadership and team climate. Our findings showed that punitive supervision is distinct from both team climate and other aspects of leadership and, as expected, is negatively correlated with those constructs. Drawing on a broader sample of managers (N = 109) that included additional participants who did not take part in the study, we carried out a Confirmatory Factor Analysis¹ (CFA) on the three items assessing punitive supervision, as well as the items assessing related constructs. The CFA showed that the punitive supervision items assessed a unique construct, distinct from other leadership constructs, and that the items had an appropriate internal consistency.

**Control variables.** Three of the variables in our model were being predicted by a variable measured at the same time point—perceived competence, anxiety and vitality were all measured in the end-of-workday survey and each were predicted by one or two other

¹ Full details of the structural model are available from the authors upon request.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

variables measured at that time-point. To address the limitations of this concurrent
measurement (due to common method variance and direction of causality), we controlled for
the lags of these three variables. Concurrent measurement was not a concern for detachment
because it was assessed at a separate time-point to other variables in the model and thus
lagged by design. Our measure of perceived competence relates to perceptions about the
current workday, so the most recent lag is perceived competence from the end of the previous
workday. Anxiety and vitality relate to momentary feelings that were experienced at the end
of the workday. Given that these experiences are not tied to work per se, the most recent lag
is feelings experienced that morning. Therefore, we controlled for end-of-workday perceived
competence from the previous day, and anxiety and vitality from the morning survey.

Analytic Strategy

The data collected from the baseline questionnaire and daily surveys (morning, end-
of-workday, bed-time) had a hierarchical structure with two nested levels. At the within-
person, or daily level, each person provided data on three to seven days. Thus, there were 3-7
measurements of proactive work behavior, perceived competence, vitality and anxiety
(measured in the end-of-workday survey), detachment (measured in the bed-time survey),
and finally, vitality and anxiety from the morning survey. At the between-person level, each
person provided one measurement of punitive supervision.

We ran multi-level analyses using Mplus 8.0 software (Muthén & Muthén, 1998-
2015). We specified a null model which included all the variables as dependent variables, in
order to calculate the intra-class correlation coefficient (ICC) which indicates how much of
the variance in each variable exists at the between versus the within-person levels. We then
tested our hypotheses with the TYPE=TWOLEVEL RANDOM function in a multi-level path
analysis.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Vitality and detachment were simultaneously specified as outcome variables. The effects of proactive work behavior on perceived competence and anxiety were each specified as a random slope for testing their respective cross-level moderations. The indirect effects for the energy-generating (proactive work behavior on vitality via perceived competence) and strain (proactive work behavior on detachment via anxiety) pathways were specified using the MODEL CONSTRAINT function of Mplus (Muthén & Muthén, 1998-2015). The moderating effect of punitive supervision was calculated by specifying it as a between-level predictor of perceived competence and anxiety (to control for main effects) and of the within-level random slopes previously specified.

Previous day perceived competence, morning vitality and morning anxiety were specified as lagged predictors of perceived competence, vitality and anxiety, respectively. All the within-level predictors were person-mean centered (Hofmann & Gavin, 1998; Ohly et al., 2010) whereas our between-level predictor (punitive supervision) was grand-mean centered. Effect sizes were assessed by calculating the proportion of variance accounted for in the within-person variance and between-person variance around the intercepts and slopes (Yeo & Neal, 2006; Zickar & Slaughter, 1999).

Construct validity

We tested the construct validity of all the substantive day-level variables with a multi-level confirmatory factor analysis using Mplus 8.0 (Sonnentag & Starzyk, 2015). We compared a five-factor model (end-of-workday vitality, end-of workday anxiety, perceived competence, proactive work behavior and detachment) with all items loading on the respective factors with alternative models. The five-factor model had a good fit, $\chi^2 = 107.245$, $df = 55$, $SCF = 1.781$, $CFI = 0.980$, $RMSEA = 0.045$ and fit the data better than alternative models (see Table 1). Overall, this confirmatory factor analysis shows that all measures refer to distinct constructs.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Insert Table 1 about here

Results

Means, standard deviations and correlations among study variables can be seen in Table 2. The null model indicated that all our variables (excluding punitive supervision) had a within-person variance ranging between 50% and 78%, thus supporting our multi-level approach².

Insert Table 2 about here

Table 3 shows the parameter estimates of the multi-level path model. For the energy-generating pathway $H_1$ stated that proactive work behavior would be positively associated with perceived competence. Results showed that proactive work behavior was significantly positively associated with perceived competence ($B = 0.50$, $SE = 0.08$, $p < .001$). Given that we controlled for perceived competence on the previous day, this result indicates that high levels of proactive work behavior were associated with a larger increase in competence from one day to the next, compared to days in which participants reported lower levels of proactive work behavior. Therefore $H_1$ was supported.

Insert Table 3 about here

$H_2$ proposed that perceived competence would be positively associated with vitality. In line with our expectations, results showed that perceived competence was significantly

² The ICCs were as following: vitality (63%), anxiety (69%), detachment (62%) proactive work behavior (69%), perceived competence (52%).
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

positively associated with vitality ($B = 0.22, SE = 0.07, p < .001$). Given that we controlled
for morning vitality, this result indicates that high levels of perceived competence were
associated with a larger increase in vitality from the morning to the afternoon, compared to
days in which participants reported lower levels of perceived competence. Thus, $H_2$ was
supported.

$H_3$ stated that proactive work behavior would have an indirect positive effect on
vitality via perceived competence. Consistent with our predictions, analyses revealed a
significant indirect effect of proactive work behavior on vitality through perceived
competence ($B = .12, SE = .04, p < .01$). The 95% confidence interval was 0.040 for the lower
and 0.209 for the upper confidence limit, and therefore did not include zero. Thus $H_3$ was
also supported. That is, on days in which individuals reported higher levels of proactive work
behavior, they experienced higher levels of competence, which in turn were associated with
increased vitality, compared to days in which they engaged in lower levels of proactive work
behavior.

$H_4$ proposed that proactive work behavior would be positively associated with anxiety
at the end of the workday. Contrary to our expectations, results showed that proactive work
behavior was not significantly associated with anxiety ($B = .14, SE = .08, p > .05$). Therefore,
$H_4$ was not supported. $H_5$ stated that proactive work behavior would have an indirect effect
on one’s detachment in the evening via anxiety. Because we failed to observe a significant
association between proactive work behavior and anxiety at the end of the workday ($H_4$) there
was no significant indirect effect of proactive work behavior on detachment via anxiety ($B = -
.02, SE = .02, p > .05$). Hence, $H_5$ was not supported.

$H_6$ stated that anxiety at the end of the workday would be negatively associated with
detachment in the evening. Results showed that anxiety was negatively associated with
detachment ($B = -0.20, SE = 0.07, p < .01$). Thus, days on which participants reported high

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

levels of anxiety at the end of their workday, were associated with lower detachment in the
evening compared to days in which they reported lower levels of anxiety. Thus, \( H_5 \) was
supported. Beyond the control variables, the within-level predictors accounted for 34\% of the
within-person variance in perceived competence, 3\% of the within-person variance in vitality,
6\% of the within-person variance in anxiety, and 50\% of the within-person variance in
detachment.

Hypothesis 7a and 7b pertained to the cross-level effects of punitive supervision on
the energy-generating pathway. \( H_{7a} \) stated that the positive within-level relation between
proactive work behavior and perceived competence would be weaker for individuals who
perceive high levels of punitive supervision, compared to low. \( H_{7b} \) proposed that perceptions
of punitive supervision would moderate the indirect effect of proactive work behavior on
vitality at the end of the workday via perceived competence. Results indicated that the cross-
level moderation of punitive supervision on the relationship between proactive work behavior
and perceived competence was not significant \( (B = -0.08, SE = .09, p > .05) \), thus not
supporting \( H_{7a} \). Consequently, \( H_{7b} \) was also not supported. Therefore, punitive supervision
did not moderate the energy-generating pathway.

Hypotheses 8a and 8b related to the cross-level effects of punitive supervision on the
strain pathway. \( H_{8a} \) proposed that the relationship between proactive work behavior and
anxiety would be stronger for individuals who perceive high levels of punitive supervision
compared to those who perceive low levels of punitive supervision. Our analyses revealed
that punitive supervision moderated the within-person effect of proactive work behavior on
anxiety, as indicated by the significant interaction term \( (B = 0.17, SE = .08, p < .05) \). The
significant interaction is depicted in Figure 2 and probed in the context of \( H_{8b} \).

Insert Figure 2 about here

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

For Hypothesis 8b, which pertained to the indirect effect of proactivity on detachment (via anxiety) moderated by punitive supervision, we tested the conditional effect at 1 SD above the mean, at the mean, and at 1 SD below the mean of punitive supervision: our analyses showed that there was a significant indirect effect of proactive work behavior on detachment, via anxiety, for those who reported high levels of punitive supervision (+1 SD; $B = - .06, SE = .02, p < .01$). The indirect effect did not occur when participants reported moderate (at the mean; $B = - .03, SE = .02, p > .05$) or low levels of punitive supervision (-1 SD; $B = .01, SE = .02, p > .05$). We performed additional analyses to explore the region of significance of this interaction: the negative indirect effect of proactive behavior on detachment via anxiety becomes significant at 0.2 SD above the mean for punitive supervision. Therefore, both $H_{8a}$ and $H_{8b}$ were supported.

The introduction of punitive supervision in the model accounted for 8% of the between-person variance of the anxiety intercept; and 55% of between-person variance of the proactive work behavior-anxiety slope.

We performed follow-up cross-over analyses to test whether the hypothesized mediating pathways were stronger than possible alternative pathways (that is, proactive work behavior predicting vitality through anxiety, and detachment via perceived competence): our analyses suggested that the coefficients of the hypothesized pathways were consistently stronger than the non-hypothesized pathways.

In summary, our findings provide partial support for our dual-pathway model: for the energy-generating pathway, proactive work behavior was associated with vitality, and this effect was mediated by perceived competence. However, these effects were not moderated by punitive supervision. For the strain pathway, our results indicated that the negative indirect effect of proactive work behavior on bed-time detachment via anxiety occurred only for

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

participants who reported their supervisor as highly punitive. A summary of these effects is presented in Figure 3.

---------------------------------------------------------------

Insert Figure 3 about here

---------------------------------------------------------------

Discussion

This study examined when and how proactivity can influence employees’ daily well-being via two distinct processes: an energy-generating pathway and a strain pathway. Understanding the well-being implications of proactivity is an important endeavor because organizations are increasingly reliant upon their employees’ proactivity to survive and thrive in business. Yet if proactive work behavior is detrimental for employees’ well-being, then encouraging this behavior might backfire. Thus, understanding how proactive work behavior affects well-being on a daily basis will inform organizations as to how to best manage the proactive behavior of their workers.

Our findings support the notion that proactivity can yield both positive and negative consequences for employees (Bolino, Valcea, et al., 2010; Cangiano & Parker, 2015). We proposed and found support for a dual-pathway model of proactivity in which engaging in proactive work behavior can generate a sense of vitality but, at the same time, under particular conditions, can also generate anxiety and interfere with employees’ ability to detach from work after hours.

First, in an energy-generating pathway, we found that being proactive at work can increase employees’ vitality through perceived competence. That is, our findings indicated that on days when people take charge and make things happen at work, they are more likely to feel competent. Our results corroborate and extend the findings of Fay and Sonnenag (2012), indicating that the desire to feel competent is not only an important motivator of

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

proactivity, but also a consequence of this behavior. Our results are also consistent with the
theorizing by Strauss and Parker (2014), who argued that being proactive at work can serve
as a means to experience a sense of achievement in one’s work activities. Proactivity is likely
to be an important driver of perceived competence because it is a challenging behavior:
engaging in challenging activities can promote a sense of mastery with the surrounding
environment, which in turn fuels one’s perceptions of competence. Furthermore, proactive
goals often go above and beyond formally written rules and procedures and should therefore
boost one’s level of perceived competence to a greater extent as opposed to solving an issue
using standard work procedures. The self-initiated role of proactive behavior is also likely to
be important by allowing individuals to attribute any immediate positive outcomes to
themselves. For these reasons, the effects of daily proactive work behavior on perceived
competence are likely to be stronger than task performance. Future research could test these
theorized processes by which proactive behavior builds a sense of competence.

Additionally, in line with Ryff (1989), and Deci and Ryan (2000), this study has
provided support for the idea that experiencing a sense of competence at work is an important
determinant of an individual’s sense of end-of-day vitality. Specifically, our data suggest that
daily fluctuations in perceptions of competence at work are associated with changes in
vitality. Further, our analyses showed that the effect of proactive work behavior on vitality
occurred via perceived competence. These findings are theoretically important because they
suggest that experiencing a sense of competence is important for well-being because it
generates feelings of vitality, which has a number of desirable consequences for employees
and organizations (Shirom, 2011). Interestingly, our findings suggest that these effects of
proactive work behavior on employee’s vitality are not affected by the extent to which one’s
supervisor is perceived as punitive.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Second, we proposed and demonstrated that behaving proactively can generate detrimental effects for employees’ well-being. We focused on the circumstances under which proactivity can generate anxiety and how, in turn, this negatively impacts employees’ detachment after work. Our results showed that the extent to which employees perceive their supervisor as punitive is important in shaping whether or not one’s proactive behavior on a given day generates anxiety. Participants whose supervisors tend to react negatively and blame employees for their mistakes reported greater anxiety on days in which they engaged in proactive behavior at work. Conversely, our findings showed that this negative effect did not occur for employees whose supervisors were more ‘tolerant’ towards mistakes and errors. These results reinforce the idea that supervisors do play a role in the proactive process - not only in shaping the level of proactivity (Wu & Parker, 2014) - but also in determining the well-being consequences of proactive behavior. Our findings are also consistent with the idea that behaving proactively is a psychologically risky behavior and, as such, its negative consequences for well-being are distinct from related behaviors such as citizenship, as they operate through different processes (Bindl & Parker, 2011; Koopman, Lanaj, & Scott, 2016; Parker & Bindl, 2017).

Third, by showing the existence of two pathways by which proactive work behavior affects employees’ well-being, our study helps to resolve previous contradictory arguments about the personal consequences of proactivity. On the one hand, proactive work behavior is positive for employees because it provides opportunities to experience a sense of competence and mastery in their work, which has an energizing effect on their well-being. On the other hand, it can create anxiety and undermine the ability to detach when supervisors are prone to reacting negatively to their mistakes. Overall, this study advances our understanding of the consequences of proactive work behavior by integrating and complementing the ‘bright’
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

(Strauss & Parker, 2014) and the ‘dark’ (Bolino, Valcea, et al., 2010; Fay & Hüttges, 2016) sides of proactivity.

It is interesting to note that, contrary to our predictions, the positive effects of proactive behavior (energy-generating pathway) were unconditional, whereas the negative effects of proactive behaviors (strain pathway) occurred only for individuals with a punitive supervisor. One possible explanation for these findings is that the two pathways operate through different processes and time-scales. That is, perceptions of competence ensuing from proactive work behavior may be a more immediate (and almost automatic) outcome of engaging in proactive behavior, as a sense of control and environmental mastery should satisfy an innate psychological need for humans (Ryff, 1989), regardless of contextual variables. The ‘strain’ pathway, instead, might reflect a slightly longer-term process. For example, being proactive in the context of a ‘punitive’ supervisor is expected to generate anxiety which can be associated with a downward spiral of negative thoughts about one’s work, which can thus undermine the process of detachment later in the evening. From a slightly different viewpoint, the challenging nature of proactivity might also cancel out any potential dampening effects of punitive supervision. Specifically, although perceptions of how one’s supervisor reacts to mistakes may undermine one’s sense of competence when being proactive, on the other hand this may also heighten perceptions of challenge, which could level out any moderating effect of punitive supervision on the energy-generating pathway.

From a practical viewpoint, these results indicate that organizations might benefit from encouraging employees to engage in proactive activities – not only for the performance benefits – but because proactivity increases employees’ feelings of competence, which is energizing. Therefore, organizations may benefit from redesigning jobs in order to provide workers with more autonomy and control to facilitate the onset of proactive work behavior.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

(Parker et al., 2006). Our results also corroborate Grant and colleagues’ idea that it is important for supervisors “to create cultures, climates, norms, and reward systems that encourage proactive behaviors” (2009, p. 52). Our findings highlight that it is essential to train supervisors to deal effectively with the proactivity of their employees, including being tolerant of mistakes. If supervisors react negatively to mistakes, then engaging in psychologically risky behaviors such as proactivity may backfire by creating anxiety, lowering detachment and ultimately – one might speculate - reduce the occurrence of proactivity. Further, findings from this study support the idea that it is not sufficient to encourage employees to take charge and show personal initiative: organizations must create a psychologically safe climate where employees feel comfortable in taking risks without fearing negative consequence for themselves or their careers (Baer & Frese, 2003).

Strengths and Limitations

This study has several methodological strengths. First, the diary methodology allowed us to explore the dynamics of proactivity at the micro level, without sacrificing ecological validity (Ohly et al., 2010): proactive work behavior is arguably difficult to capture and manipulate in controlled settings, especially because of the self-initiation component.

Longitudinal designs such as the current one provide researchers the opportunity to “capture life as it is lived” (Bolger & Laurenceau, 2013, p. 597) and assess self-initiated behaviors and their consequences in their natural setting. Second, because we person-centered our data, we were able to account for and minimize the effect of possible unmeasured individual and contextual differences that may influence the energetic consequences of proactive behavior (e.g., proactive personality, general levels of vitality, job resources).

Our study also has some limitations that might affect the generalizability and robustness of the findings. First, our data are based on self-report variables, which is known to cause common-method variance issues (Podsakoff, MacKenzie, Lee, & Podsakoff, 2003).
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Self-reports are prone to self-bias, such as the bias that people tend to respond to questions in ways that present them in a favorable light rather than reflect their actual behavior (Paulhus, 2002). To address this issue, we centered all the variables around the individual’s own mean to rule out the possible influence of response tendencies due to individual differences, thus partially addressing common-method variance. In addition, proactive behavior is ambiguous for observers to report and is not exempt from bias (Grant & al., 2009). Therefore, reports from others might not always be a more desirable way to assess employees’ proactive work behavior, especially at the day level. Regarding the latter, it might be difficult for supervisors or others to detect daily variations in behavior unless they work in such a way they can closely observe the participant’s behavior.

A second limitation concerns uncertainty about causality. Our two mediating variables - perceived competence and anxiety - were measured at the same time as proactive work behavior and vitality (during the end-of-workday survey). Consequently, it could be speculated that when people feel competent, they are also more likely to engage in proactive work behavior. However, owing to its self-initiated nature, we contend that proactive behavior is best conceptualized as an antecedent of perceived competence, rather than as an outcome. In support of this argument, Fay and Sonnentag (2012) considered how experienced competence in core tasks predicts time spent on proactive work behavior in an experience-sampling study with employees. Their findings showed that low perceived competence predicted an increase in time spent on proactive behavior, thus implying a negative effect of competence on proactive work behavior. Conversely, in our study we found a positive relationship between proactive work behavior and competence, which supports our argument that people experience competence as a result of proactivity. In support of our causal claim, we controlled for employees’ reported levels of competence the previous day, and showed that daily proactive behavior predicts a positive change in employees’ perceived competence.

http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

from one day to the next. The causal direction of the indirect link between proactive work
behavior and vitality is also strengthened because we controlled for morning vitality.

Moreover, for the strain pathway, the outcome variable - detachment - was measured in the
bed-time survey and was therefore temporally separated from all the other variables. This
type of approach allows the alleviation of some of the concerns usually associated with
common-method variance (Podsakoff et al., 2003). Overall, we believe that – although we
acknowledge that it is not possible to draw conclusive causal inferences from our study - the
proposed direction of causality is theoretically sound, and the longitudinal nature of the
design helps to establish this direction. Indeed, future research is needed to better understand
the causality of these relationships.

Future Research

This research highlights questions in need of further investigation. For example,
although we found a significant indirect effect of proactive work behavior on vitality via
perceived competence, we did not detect main effects. An implication of this is the possibility
that other moderators might affect the relationship between proactive work behavior and
vitality. For example, engaging in proactive work behavior for extrinsic reasons (e.g.,
impression management) might drain resources rather than generate them (Bolino, Valcea, et
al., 2010). Research could explore whether controlled forms of proactivity ('pressures' for
proactivity) are less likely to increase vitality than autonomous forms of proactive behaviors
(Bolino, Hsiung, Harvey, & LePine, 2015; Bolino, Turnley, Gilstrap, & Suazo, 2010). In our
view, feeling compelled by one’s organizational environment to behave proactively might
create a controlled motivation to be proactive, which is less self-determined and therefore less
likely to be beneficial for well-being (Nix, Ryan, Manly, & Deci, 1999).

Regarding the consequences of proactivity, it should be noted that not all proactive
behaviors are 'created equal', and therefore different forms of proactivity may yield distinct
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

well-being outcomes. For instance, changing a work procedure implemented by the
supervisor is arguably more psychologically risky (as it may be perceived as a personal attack
to de-legitimize the leader) compared to proactively helping a colleague without being
instructed to do so. It could be argued that the riskier a proactive behavior is, the greater the
possibility that it may generate anxiety in the context of a punitive supervisor. Hence, future
research could explore how different types of proactive work behavior (e.g., proactive
helping vs. taking charge) impact employees’ well-being and how different supervision styles
shape such outcomes.

Other factors that could be explored in future research include the impact of
successful execution (Cangiano & Parker, 2015). Although in this study we considered how
employees’ perceptions of punitive supervision moderate the extent to which daily
proactivity causes anxiety, we did not assess whether successfully completing the activity (or
achieving the desired results) decreases the sense of anxiety. For instance, failing to achieve
one’s proactive goal could significantly weaken the effect of proactivity on perceived
competence. Furthermore, we focused on negative supervisor reactions to mistakes: it is
plausible to expect that receiving praise and intrinsic incentives for one’s proactive behavior
is likely to generate positive outcomes for employees’ well-being. For example, receiving
positive feedback and appreciation from coworkers and supervisors might increase the
individual’s sense of self-esteem and self-efficacy, as well as enhancing feelings of
competence and mastery.

A further direction concerns the longer-term effects of proactive work behavior on
well-being. We focused on the daily effects of proactive behavior on short-term well-being.
In the long-term the affective outcomes considered in this study may be exacerbated and
create more prominent effects. For example, an individual feeling anxious due to engaging in
proactive work behavior in the context of a supervisor that reacts negatively to mistakes,
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

might in the end need to change strategy and adopt a more passive/reactive approach at work
to reduce his/her anxiety. From a darker viewpoint, the sense of anxiety induced by being
proactive with a punitive supervisor may result in burnout or increased turnover intentions.
Future research could explore how proactive work behavior may trigger virtuous or vicious
spirals for employees’ well-being over time.

Conclusion

Our study suggests that the well-being consequences of employees’ proactivity are
multi-faceted. In essence, proactive work behavior has a ‘bright’ side for employees, but can
also have a ‘dark’ one. Understanding how proactivity influences well-being can shed light
on the way in which we should promote this behavior for it to be sustainable in the long-run.
Although proactivity is an intrinsically motivating behavior that may help employees to feel
competent in their work, the way in which supervisors react to mistakes and errors could
impact on whether proactive behaviors also generate anxiety.
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

References


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Psychological studies of flow in consciousness (pp. 266-287). New York, NY, US: Cambridge University Press.


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR


http://mc.manuscriptcentral.com/job
DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR

Table 2. Means, Standard Deviations and Intercorrelations of study variables.

<table>
<thead>
<tr>
<th>Variables</th>
<th>M</th>
<th>SD</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between-person level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Punitive supervision</td>
<td>2.38</td>
<td>.87</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.09</td>
</tr>
<tr>
<td>Within-person level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Proactive work behavior (end-of-workday)</td>
<td>3.26</td>
<td>.87</td>
<td>.05</td>
<td>-.22</td>
<td>.59</td>
<td>.97</td>
<td>-.03</td>
<td>.26</td>
<td>-.05</td>
<td>.10</td>
</tr>
<tr>
<td>3. Perceived competence (end-of-workday)</td>
<td>3.54</td>
<td>.85</td>
<td>-.22</td>
<td>.59</td>
<td>-.05</td>
<td>.26</td>
<td>-.13</td>
<td>.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Vitality (morning)</td>
<td>3.16</td>
<td>1.00</td>
<td>-.13</td>
<td>.24</td>
<td>.30</td>
<td>-.12</td>
<td>.15</td>
<td>-.07</td>
<td>.04</td>
<td></td>
</tr>
<tr>
<td>5. Anxiety (morning)</td>
<td>1.50</td>
<td>.69</td>
<td>.11</td>
<td>-.04</td>
<td>-.28</td>
<td>-.23</td>
<td>-.08</td>
<td>.18</td>
<td>-.12</td>
<td></td>
</tr>
<tr>
<td>6. Vitality (end-of-workday)</td>
<td>3.00</td>
<td>1.00</td>
<td>-.11</td>
<td>.45</td>
<td>.46</td>
<td>.46</td>
<td>-.18</td>
<td></td>
<td>-.18</td>
<td>.13</td>
</tr>
<tr>
<td>7. Anxiety (end-of-workday)</td>
<td>1.53</td>
<td>.81</td>
<td>.17</td>
<td>-.06</td>
<td>-.30</td>
<td>-.11</td>
<td>.64</td>
<td>-.32</td>
<td></td>
<td>-.23</td>
</tr>
<tr>
<td>8. Detachment (bed-time)</td>
<td>3.31</td>
<td>1.04</td>
<td>-.23</td>
<td>.10</td>
<td>.33</td>
<td>.33</td>
<td>-.30</td>
<td>.45</td>
<td>-.40</td>
<td></td>
</tr>
</tbody>
</table>

Note. Correlations below the diagonal represent the between-person level (N = 90-94) whereas correlations above the diagonal are at the within-person level (N = 538-560 depending on the number of missing values in some of the daily surveys). Coefficients above the diagonal were calculated by subtracting participants' daily responses from their respective person-mean score (Stijders & Bosker, 1999).

*p < .05. **p < .01.
**DAILY OUTCOMES OF PROACTIVE WORK BEHAVIOR**

<table>
<thead>
<tr>
<th>Variables</th>
<th>$\chi^2$</th>
<th>df</th>
<th>SCF</th>
<th>CFI</th>
<th>TLI</th>
<th>RMSEA</th>
<th>S-B $\chi^2$</th>
<th>df</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>1M: Five-factor model</td>
<td>107,745</td>
<td>55</td>
<td>1.781</td>
<td>0.98</td>
<td>0.972</td>
<td>0.045</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2M: Four-factor model</td>
<td>483,617</td>
<td>59</td>
<td>1.790</td>
<td>0.838</td>
<td>0.786</td>
<td>0.123</td>
<td>352.538</td>
<td>4</td>
<td>.001</td>
</tr>
<tr>
<td>3M: Three-factor model</td>
<td>695,044</td>
<td>62</td>
<td>1.734</td>
<td>0.759</td>
<td>0.696</td>
<td>0.146</td>
<td>743.161</td>
<td>7</td>
<td>.001</td>
</tr>
<tr>
<td>4M: Two-factor model</td>
<td>998,588</td>
<td>64</td>
<td>1.735</td>
<td>0.644</td>
<td>0.566</td>
<td>0.175</td>
<td>1060.292</td>
<td>9</td>
<td>.001</td>
</tr>
<tr>
<td>5M: One-factor model</td>
<td>1423,391</td>
<td>65</td>
<td>1.671</td>
<td>0.482</td>
<td>0.379</td>
<td>0.209</td>
<td>2052.047</td>
<td>10</td>
<td>.001</td>
</tr>
</tbody>
</table>

Table 1. Results of multi-level confirmatory factor analysis.

Note: SCF = scale correction factor; CFI = comparative fit index; TLI = Tucker-Lewis index; RMSEA = root mean square error of approximation. S-B $\chi^2$ = Satorra-Bentler $\chi^2$ referring to the comparison with the five-factor model. 3M: vitality (end-of-workday) and anxiety (end-of-workday) loading on one common factor. 4M: vitality (end-of-workday), anxiety (end-of-workday), perceived competence and detachment loading on one common factor. 5M: vitality (end-of-workday), anxiety (end-of-workday), proactive work behavior, perceived competence and detachment loading on one single factor.

http://mc.manuscriptcentral.com/job
<table>
<thead>
<tr>
<th>Within level</th>
<th>Estimate</th>
<th>SE</th>
<th>t</th>
<th>Estimate</th>
<th>SE</th>
<th>z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vitality in the morning</td>
<td>-0.047</td>
<td>0.101</td>
<td>-0.461</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anxiety in the morning</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.520</td>
<td>0.125</td>
<td>4.155***</td>
</tr>
<tr>
<td>Lagged perceived competence (previous day)</td>
<td>-0.100</td>
<td>0.075</td>
<td>-1.336</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proactive work behavior (PWB)</td>
<td>0.504</td>
<td>0.080</td>
<td>6.276***</td>
<td>0.140</td>
<td>0.079</td>
<td>1.779</td>
</tr>
<tr>
<td>Residual variance</td>
<td>0.257</td>
<td>0.034</td>
<td>4.757***</td>
<td>0.364</td>
<td>0.081</td>
<td>4.484***</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Between level</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>3.625</td>
<td>0.080</td>
<td>45.273</td>
<td>1.512</td>
<td>0.073</td>
<td>20.728</td>
</tr>
<tr>
<td>Punitive supervision (PS)</td>
<td>-0.074</td>
<td>0.119</td>
<td>-0.618</td>
<td>-0.151</td>
<td>0.170</td>
<td>-1.140</td>
</tr>
<tr>
<td>PWB*PS</td>
<td>0.077</td>
<td>0.087</td>
<td>0.885</td>
<td>0.174</td>
<td>0.081</td>
<td>2.150*</td>
</tr>
<tr>
<td>Residual variance</td>
<td>0.354</td>
<td>0.084</td>
<td>4.194***</td>
<td>0.207</td>
<td>0.118</td>
<td>1.758</td>
</tr>
</tbody>
</table>

| Residual variance               |          |     |       |          |     |       |

Note: Estimates are unstandardized, resulting from an overall analysis including the prediction of perceived competence, end-of-workday vitality, end-of-workday anxiety and bed-time detachment in one model. The between-level predictor (punitive supervision) was centered at the grand mean, all other predictors were person-mean centered.

*p < .05. **p < .01. ***p < .001.
Figure 1. Hypothesized research model.
Figure 3. Summary of the daily effects of proactive work behavior on vitality (via perceived competence) and detachment (via anxiety).

*p < .05, **p < .01, ***p < .001.
Figure 2. Perceptions of punitive supervision as a moderator of the within-subject relationship between proactive work behavior and work anxiety, controlling for morning anxiety.