Abstract

The role of the social context (e.g., leadership, team climate, organizational support) in shaping employee proactive behavior has received considerable attention, and has been conducted across multiple forms of proactive behavior. However, the research is rather disparate. In this review, we adopt a multi-level approach to synthesize what is known about how social context factors influence employees' proactive behavior, as well as what mechanisms underpin these effects. Our analyses show that leader-, team- and organization-related social context factors mainly influence employee proactivity through shaping "reason to", "can do", and "energized to" states (i.e., proactive motivational states) via individual-, team-, as well as cross-level, processes. The most frequently investigated path is the effect of the discretionary social context, particularly leadership, on proactive behavior. Moreover, we reviewed the interaction effects between social context factors and individual attributes as well as contextual factors on proactive behavior, and found inconsistent support for the motivational fit perspective that stimuli with the same directions enhance each other's effect. We offer a research agenda to advance theoretical insights into this important topic.

Keywords: social context, proactive behavior, multilevel, proactive motivation model

How Does the Social Context Fuel the Proactive Fire?

A Multi-Level Review and Theoretical Synthesis

Given its positive implications for enhancing individual and organizational effectiveness, a fast-growing body of literature has focused on employee work-based proactive behavior, or employees' self-initiated efforts to bring about future-focused changes (Parker & Collins, 2010). Aiming to change and improve the situation or oneself (Bindl & Parker, 2017; Parker et al., 2006), proactivity[1] emphasizes that people need not passively accept environmental exigencies but instead can intentionally take actions to change the work environment they encounter (Parker & Collins, 2010).

Existing literature mainly examined why proactive behavior happens in the workplaces, identifying a variety of individual attributes and job features, such as proactive personality and job autonomy, as antecedents (for reviews, please see by Marinova, Peng, Lorinkova, Van Dyne, & Chiaburu, 2015; Ohly & Schmitt, 2017; Wu & Li, 2017). But, a fundamental component of proactive behavior is the idea that people need not passively accept environmental exigencies. Instead, they can intentionally take action to change the work environment they encounter (Parker & Collins, 2010). Such actions are highly likely to be affected by social cues. Indeed, an interactionist perspective on proactivity would assume that the social context shapes individual decisions to be proactive. Simply stated, "Interactionism notes that the person, environment, and behavior continuously influence one another" (Crant, Hu, Jiang, 2017, p.194). Thus, theoretically, proactive behavior is highly likely to be affected by social cues. Consistent with such a perspective, in recent years, there has been an increase in numbers of studies focusing on social factors as antecedents to work-based proactive behavior (e.g., Hong, Liao, Raub, & Han, 2016; Parker, Williams, & Turner, 2006)

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[1] In this paper, we use proactive behavior and proactivity interchangeably.

Despite the growth in the research focusing on the role of social processes, there is a lack of clarity about the full set of social context factors that might shape multiple forms of proactive behavior. First, most scholars have focused on only a single social context variable at a time. For example, Parker and Wu (2014) examined how leadership affects proactive behavior, but did not consider other social processes. Thus, we need to develop a clearer picture as to the full range of social context factors that affect proactive behavior. Second, when research has considered multiple social factors, it has tended to do so for just one form of proactivity. For instance, Ng and Feldman's (2012) meta-analyses identified a set of social factors that shape employee voice behavior. Supporting a resource conservation argument (Hobfoll, 1986), the authors concluded that social stressors decrease voice behavior. However, although this study reviewed multiple social antecedents, it focused only on voice behavior, so we do not know if different sorts of social context are needed depending on the form of proactive behavior. Third, the level of the social context variable has had little attention. For example, Farrell and Strauss (2013) proposed a model of how work-based social relationships affect proactive behavior but they did not consider the possibility that these relationships could vary across different levels, such as leader-member exchange (LMX) at a leader-subordinate level and team support at a team level. Accordingly, the multi-level nature of social context factors was obscured. Altogether, there is a need to synthesize research on the multi-level set of social context factors that shape different types of proactive behaviors (Chen, Farh, Campbell-Bush, Wu, & Wu, 2013; Chen & Kanfer, 2006).

Once we identify the social context antecedents for employee proactive behavior, this also paves the way for recognizing the mechanisms that underlie the social cues for proactive behavior. For example, Detert and Burris (2007) found that transformational leadership influences individual voice behavior through psychological safety, whereas Liu, Zhu, and Yang (2010) found social and relational identification to be the mechanisms. The forces that

spurred the growth of a social perspective for proactive behavior concepts look set to continue. Further investigation is needed to synthesize the mediating mechanisms that influence proactive employee behavior (Chiaburu, Lorinkova, & Van Dyne, 2013).

Our review has three major purposes. First, we identify different social context factors across multiple proactive behavior domains to clarify the association between the social context and proactive behavior. Second, we adopt an integrated approach to summarize the mediating mechanisms for the impact of social context predictors on proactive behavior, spelling out multi-level pathways to understand why and under which circumstances employees engage in the proactive behavior. Finally, we offer a research agenda to build on what is known as well as to further advance theoretical insights into this topic.

Domain and Scope of the Review: Social Context and Proactive Behavior

In what follows, we define what we mean by social context and by proactive behavior, and then describe how we identified papers linking these concepts for the review.

Clarifying Social Context

The notion of "context" was originally conceptualized as the stimuli and phenomena surrounding individuals that "illuminate" their behaviors (Cappelli & Sherer, 1991), implying a moderating role of context for shaping behavior. Later, scholars developed an extended meaning of context, identifying it as a predictor of behavior. Mowday and Sutton (1993), for example, argued that the context serves as opportunities and constraints for behaviors in organizational settings. Bamberger (2008, p. 841) recognized that context is both a moderator and a predictor of behavior, defining it as "surrounding phenomena or temporal conditions (that) directly influence lower-level phenomena, condition relations between one or more variables at different levels of analysis …". Building on this perspective, Johns (2018, p.22) pointed out that context "provides constraints and opportunities that affect the occurrence of organizational behavior and shape its meaning" and defined context as "situational or

environmental stimuli that impinge upon focal actors and are often located at a different level of analysis from those actors".

Guided by this literature, we recognize social context as both a predictor of proactive employee behavior, and a moderator of the relationship between other factors and proactive behavior. We follow Johns (2018) to define the social context as the "*multi-level interpersonal stimuli that surround, and are external to, the individual(s)"*. This definition encompasses a broad scope of interpersonal stimuli. Thus, besides direct interpersonal interactions and relationships, such as coworker support and leader-member exchange, the social context also includes leadership, team climate, organizational values, industry norms, and national values. Collective values and norms are social factors relevant to employee work-based proactive behavior because they emerge from the interactions among individuals who are involved in the particular context. These interactions frequently provide diagnostic cues and criteria against which individuals interpret and evaluate their own behaviors and that of others.

By focusing on social context as "multi-level", we recognize that social factors can differ in *levels of theorization*, *levels of measurement*, and *levels of analysis*. Leadership, for example, has been measured and analyzed at both individual and team levels, with the former reflecting individuals' perceptions of his/her leader, and the latter reflects the teams' shared perception of the leader (Chen & Bliese, 2002). In their multi-level model of team motivation, Chen and Kanfer (2006) differentiated discretionary inputs, or person-oriented stimuli that are directed towards a specific individual (an individual-level process), from ambient inputs, or team-oriented stimuli that pervade the team as a whole (a team-level process). Similarly, we adopt a multi-level perspective and classify the social context into *discretionary social context factors* and *ambient social context factors.* Discretionary social context factors are usually theorized, measured, and analyzed at the individual level,

reflecting individual social experiences or perceptions of the social context, such as the perceived leadership and LMX. Ambient social context factors function at higher levels, reflecting social experiences or shared properties common to collectives, such as team leadership, team climate, and LMX diversity.

Clarifying Proactive Behavior

Proactive behavior refers to self-initiated behavior to bring about future-focused change (Parker et al., 2006). There are many forms of individual-level proactive behavior that have received attention in the literature. We include all of these forms of proactivity in the current review. We draw on Parker and Collins (2010), who synthesized the many forms into three overarching categories: proactive work behavior, including taking charge, innovative behavior, voice, and problem prevention, proactive strategic behavior, including issue selling and strategic scanning, and proactive person-environment fit behavior, including feedback seeking and job change negotiation (idiosyncratic deals).

Recently scholars have proposed that we should focus on team-level proactive behavior because "to overcome and thrive in such uncertainty … teams must be proactive" (Harris & Kirkman, 2017). Williams, Parker, and Turner (2010) argued that team proactive behavior is a team-level concept that is theoretically similar to individual proactive behavior and defined it as "the extent to which a team engages in self-starting, future-focused action that aims to change the external situation or the team itself" (p.302). To capture these multi-level phenomena, we include studies with team proactive behavior in this review[2].

Methodology for the Review

We searched for empirical papers within the field of business, management, and applied psychology using keywords related to proactive behavior including: (1) generic terms

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[2] Note that, although the terms are similar, team member proactive behavior (Griffin et al., 2007; see also interpersonal proactive behaviors, Belschak and Den Hartog, 2010) are distinct from "team proactive behavior", because they are kinds of individual-level proactivity that are directed to team goals, such as individually introducing new methods to enhance the team's processes.

relevant to proactive behavior such as *proactivity, proactive behavior, personal initiative,* and *change-oriented citizenship* and (2) specific types of proactive behavior, including *taking charge, innovative behavior, voice, problem prevention, issue selling, strategic scanning, feedback seeking,* and *job change negotiation (idiosyncratic deals).* We only focused on top-tier journals in our review to ensure the quality of the studies. We made the selection mainly based on the journal impact factors (> 2). The final list of journals (see Online Supplement Appendix 1) is similar to the list of core top management journals identified by Podsakoff, MacKenzie, Podsakoff, and Bachrach (2008), so we think this list is reasonable.

Using the keywords, we first searched for literature mainly from the Web of Science, complemented by EBSCO and PsycINFO. We also manually checked the reference list in previous book chapters, qualitative reviews, and meta-analyses about proactive behavior. This procedure resulted in around 400 papers. Those papers published in the listed journals were retained for the next steps. We then checked whether social context factors were considered in these papers. Those which included social factors, either as predictors or moderators, were retained. This procedure led us to identify 152 related papers.

To organize the findings, we coded the studies in the following way. After classifying the social context factors according to the subjects (e.g., leader-related, team-related, and organization-related), we coded their functions, specifically, whether they shape and affect proactive behavior (an antecedent) or whether they condition the relationship between other factors and proactive behavior (a moderator). We found some studies in which social context factors interacted to influence proactive behavior. In this case, we coded it as both a "moderator" and "predictor" according to the authors' propositions. Second, we classified the social factors according to their themes. For example, ethical leadership and empowering leadership were coded as describing leadership styles. Team initiative climate and team voice

climate were coded as describing team climates. Third, we coded the factors as either ambient or discretionary, according to the criteria described above.

Finally, for each study including a mediating process between social context and proactive behavior, we coded the mediators according to the process they describe. Having created a list of all mediating processes, we then sought to categorize them in a meaningful way. Because our focus was on proactive behavior, and most of the processes were motivational (e.g., intrinsic motivation, self-efficacy), we applied the proactive motivation model proposed by Parker, Bindl, and Strauss (2010). Around 80% of the identified mediators fitted this model, which identifies three kinds of proactive motivational states that lead to proactive behavior: "can do", including "self-efficacy perceptions (can I do it?), control appraisals and attributions (e.g., how feasible is it?), and the perceived costs of action (e.g., how risky is it?)" (p. 834); "reason to", which is about goal selection and persistence, especially self-determination motivation; and "energized to", the "'hot' affect-related motivational states (p. 838). Around 20% of the mediators could not readily be classified into a single proactive motivation state (e.g., work engagement, psychological empowerment), so these were coded as "other".

In what follows we discuss the results of the review, focusing first on the studies in which social context is an antecedent of proactive behavior, then on the studies in which social context interacts with others to affect proactive behavior.

Social Context Factors as Antecedents of Proactive Behavior

The key findings from studies investigating social context factors as predictors of proactive behavior are summarized in Online Supplement Figure 1. As can be seen, most studies (N = 94) are about leader-related factors, N=29 include team-related factors, and N=24 include organization-related factors. We found no studies that considered industry-related or country-related factors. We discuss each set of factors in turn.

Leader-Related Factors as Predictors to Proactive Behavior

Existing research shows that leadership styles, specific leadership behaviors, and the quality of the relationship with the leaders have significant influences on proactive behavior.

Leadership Styles

Transformational leadership emphasizes the leader's role in introducing and implementing changes through creating a challenging vision, stimulating subordinates' intellect, and inspiring them to go beyond expectations (Den Hartog & Belschak, 2012). Since proactive behavior aims to bring about changes, it is not surprising that transformational leadership has been found to be a powerful driver of this behavior (Den Hartog & Belaschak, 2017). Its correlation with individual proactive behavior ranged from .06 (Niessen, Mäder, Stride, & Jimmieson, 2017) to .51 (Kuonath, Specht, Kühnel, Pachler, & Frey, 2017), although most studies showed a correlation between .20 and .40 (e.g., Den Hartog & Belschak, 2012; Schmitt, Den Hartog, & Belschak, 2016).

"Can do" and "reason to" motivational states were found to mediate discretionary transformational leadership's effect on individual proactivity. With respect to "can do", transformational leaders were found to increase subordinates' self-efficacy for carrying out a broader set of work tasks (role-breath self-efficacy) and lower their perceptions of personal loss from speaking up (psychological safety) (Detert & Burris, 2007; López-Domínguez, Enache, Sallan, & Simo, 2013). With respect to "reason to" motivation, these leaders increase subordinates' affective commitment (Strauss, Griffin, & Rafferty, 2009), identification (Liu, Zhu, & Yang, 2010), and voice role perception (Duan, Li, Xu, & Wu, 2017)   These "can do" and "reason to" motivational states, in turn, increase individual proactive behavior. Interestingly, Walumbwa and Hartnell (2011) found that ambient transformational leadership increased subordinates' relational identification, which then affected individual proactive

behavior through role-breath self-efficacy (RBSE), suggesting "reason to" motivation sometimes drives "can do" motivation.

There is also some evidence that "energized to" motivational states are mediators. By satisfying psychological needs and providing meaning, importance, and support, transformational leaders, as discretionary stimuli, were found to foster subordinates' thriving and work engagement ("other") (Niessen et al., 2017; Schmitt et al., 2016), which arguably provide positive and activated affective states that stimulate proactive behavior.

Empowering leadership differs from transformational leadership in that it explicitly encourages autonomy, control, and independence (Lee, Willis, & Tian, 2018). It has been found to positively shape proactivity, which is not surprising given that proactive behavior is self-initiated. The correlations with individual proactive behavior ranged from .16 (Chen et al., 2011) to .53 (Martin, Liao, & Campbell, 2013), with most studies reporting it to be around .20 (e.g., Li, Chiaburu, Kirkman, & Xie, 2013; Raub & Robert, 2010).

As to why empowering leadership is important, both affective commitment ("reason to") and RBSE ("can do") have been shown to mediate the top-down effect of ambient empowering leadership on individual proactive behavior (e.g., Gilad Chen, Sharma, Edinger, Shapiro, & Farh, 2011; Li, He, Yam, & Long, 2015). Interestingly, Hong et al. (2016) found that, when simultaneously examining the mediation effects of RBSE ("can do"), intrinsic motivation ("reason to") and positive affect ("energized to"), only RBSE was significant. They suggested that the non-significance of "reason to" and "energized to" motivational states might be because they did not use the best measures and because there are unexamined moderators. However, this finding concerning the significance of RBSE suggests that it might be a more important mediator than the other two, at least for this top-down effect.

As might be expected, psychological empowerment ("other"), or a high sense of impact, meaningful, and self-determination, was found to be a significant mediator. For

example, Chen et al. (2011) and Raub and Robert (2010) found that ambient and discretionary empowering leadership positively affected individuals' psychological empowerment, which in turn influenced individual proactive behavior. At the team level, Kirkman and Rosen (1999) found that ambient empowering leadership influenced team proactive behavior through team psychological empowerment.

Ethical leadership is different from transformational leadership and empowering leadership in that it does not specifically emphasize motivating employees but focuses on doing things in the "right way" (Brown, Treviño, & Harrison, 2005). Its correlation with individual proactive behavior was at a similar level to other leadership styles, ranging from .19 (Kalshoven, Den Hartog, & de Hoogh, 2013) to .48 (Chen & Hou, 2016).

As to why ethical leadership fosters proactivity, most evidence suggests that this way of leading builds "reason to" motivational states, including intrinsic motivation (Tu & Lu, 2013), identification (Zhu, He, Treviño, Chao, & Wang, 2015), and a motivation for reciprocity (Kalshoven et al., 2013). For example, Tu and Lu (2013) found that both discretionary and ambient ethical leadership influenced individual innovative behavior through individual intrinsic motivation. Moreover, since ambient ethical leadership increases team members' understanding of the social impact of their jobs and helps build trust relationships among team members, it could influence team intrinsic motivation that in turn affected individual innovative behavior. One study, Walumbwa and Schaubroeck (2009), found that ambient ethical leadership increased team psychological safety ("can do"), because ethical leaders, through showing openness and truthfulness to subordinates, lower individuals' perceived risk of speaking up. Regarding the "energized to" pathway, Den Hartog and Belschak (2012) found that ethical leaders increased individuals' work engagement, which indicates a positive emotional state that inspires proactive behavior.

Although these three kinds of leadership are the most extensively studied ones with respect to proactive behavior, scholars have examined the effects of other leadership styles (e.g., **servant leadership**, Panaccio, Henderson, Liden, Wayne, & Cao, 2015; **authentic leadership**: Liang, 2017; **paternalistic leadership**: Zhang, Huai, & Xie, 2015; **self-sacrificial leadership**: He, Zhou, Long, Huang, & Hao, 2018). These studies consistently showed, with correlations range from .18 to .40, that leaders displaying positive forms of leadership can facilitate individual proactive behavior. Interestingly, scholars have also shown that leadership can also be deleterious to proactive behavior. **Abusive supervision**, which refers to individuals' perception that their leaders continuously engage in hostile verbal or nonverbal behaviors (Tepper, Simon, & Park, 2017), was found to be negatively related to individual proactive behavior, with correlations ranging from -.22 (Farh & Chen, 2014) to -.12 (Ouyang, Lam, & Wang, 2015). Abusive supervision psychologically detaches individuals from their organizations (Burris, Detert, & Chiaburu, 2008), which essentially impairs "reason to" motivation, and also lowers individuals' judgment of their own self-worth (perceived insider status, Ouyang et al., 2015; organization-based self-esteem, Farh & Chen, 2014), which implies lower "can do" motivation. Furthermore, Farh and Chen (2014) found that, due to a social comparison process, when ambient abusive supervision was low, discretionary abusive supervision had an even more negative influence on individuals' organization-based self-esteem (OBSE), because individuals perceive that the abuse is highly individualized.

Specific Leader Behaviors

Besides the general leadership styles, scholars have also focused on leaders' specific behaviors to understand their impacts on employee proactive behavior.

Leaders can increase employee proactive behavior by directly encouraging change, including providing a clear vision (Griffin, Parker, & Mason, 2010), signaling that they

welcome and are interested in employees' ideas (Bienefeld & Grote, 2014), asking employees for suggestions (Tangirala & Ramanujam, 2012), and actively responding to employees' innovative inputs (Janssen & Gao, 2015). These correlations with individual proactivity range from .11 to .46[3]. Psychological safety ("can do", Bienefeld & Grote, 2014), perceived status ("other", Janssen & Gao, 2015) and perceived influence ("other", Tangirala & Ramanujam, 2012) were found to be the mediators. Note that perceived status and influence were argued to prompt individual proactive behavior because they make individuals feel they have the capacity ("can do") and responsibility ("reason to") to do so.

Leaders can also facilitate employee proactive behavior by treating them in a considerate and respectful manner. **Perceived leader support** refers to individuals' perception that their leaders care and value them and show support for their efforts (Chen, Li, & Leung, 2016; Wu & Parker, 2017). Its correlation with individual proactive behavior ranged from .13 (Parker et al., 2006) to .58 (Wu & Parker, 2017), although most studies reported the correlation to be between .20 and .40. Highly supportive leaders facilitate individual proactive behavior through making individuals feel that they could overcome the obstacles when initiating changes, thus increasing their RBSE ("can do"; Wu & Parker, 2017), and that their work is meaningful and joyful, thus increasing their intrinsic motivation ("reason t"Chen et al., 2016).

Delegating important tasks and decision responsibilities to subordinates (**delegation,** r = .18, Chen & Aryee, 2007) and treating them fairly (**perceived leader justice,** r = .55, McAllister, Kamdar, Morrison, & Turban, 2007) were also found to be beneficial to individual proactive behavior[4]. Interestingly, Liao and Chun (2016) found that **observational**

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[3] One exception is that in sample 3 Bienefeld and Grote (2014) reported the correlation between leader inclusiveness and employee speaking up behavior to be -.11, which is not significant.
[4] In the paper, the r is the correlation between the social context factor and proactive behaviour in the corresponding study.

monitoring behavior (gathering subordinates' work-related information without direct input from them) and **interactional monitoring behavior** (gathering information directly from subordinates) have contrasting effects on individual proactive beahvior, becausue the former indicates a lack of interaction during the information collection process that makes subordinates feel less empowered, fearful and skeptical and the latter creates opportunities for open discussion that help build trusting relatonships.

Not all leaders' behaviors are positive. Leaders showing **arrogance** to subordinates were found to have a negative impact on employees' feedback seeking behavior, likely because seeking feedback from such belittling leaders is risky and unreliable ($r = -.15$, Borden, Levy, & Silverman, 2018). Leaders showing **verbal aggression** (e.g., making derogatory remarks and using harsh language) to subordinates were also found to decrease their feedback seeking behavior because they appraise experiences with rude leaders as negative affective events ($r = -.04$, Nifadkar, Tsui, & Ashforth, 2012).

While all the above studies treat leaders' behaviors as *discretionary* inputs, Schraub, Michel, Shemla, and Sonntag (2014) conceptualized **leaders' emotional management** as an *ambient* input. Based on affective event theory, they found that when leaders positively regulate team members' emotions, members were likely to have high job-related affective well-being (e.g., being happy, inspired; "energized to"), which inspired proactive behaviors ($r =.21$). Also, Rofcanin, Las Heras, Matthijs Bal, Van Der Heijden, and Erdogan (2018) found that leaders' idiosyncratic deals were positively related to subordinates' ($r = .23$). On the contrary, Frazier and Bowler (2015) found that ambient **supervisor undermining** decreased team voice climate and hence team voice itself because it highlights the risk of making challenging suggestions ("can do", $r = -.27$).

Leadership scholars have argued that, apart from focusing on what leaders do, it is important to adopt a relational perspective to concentrate on the relationships between individuals and their leaders (e.g., Lord, Gatti, & Chui, 2016). In proactive behavior research, scholars have mainly examined the effect of **leader-member exchange** (**LMX)** which describes the relationships between leaders and followers as characterized by mutual trust and respect. Its correlation with individual proactive behavior ranges from -.09 (Ward, Ravlin, Klaas, Ployhart, & Buchan, 2016) to .50 (Van Dyne, Kamdar, & Joireman, 2008).

Proactive motivational states were found to mediate the relationship between LMX and individual proactive behavior. For example, Burris et al. (2008) found that low LMX made employees psychologically detach from their organizations ("reason to"), thus performing less voice behavior. Based on broaden-and-build theory (Fredrickson, 2001), Lin, Kao, Chen, and Lu, (2016) found that LMX influenced taking charge through positive affect ("energized to"). Yuan and Woodman (2010) theorized that LMX influences individual innovative behavior through expected image and performance gain ("can do"). Surprisingly, however, they found that perceived image gain had a negative effect on innovative behavior. The authors explained in terms of these individuals being more focused on showing off or pleasing others to create positive images, which makes them less innovative. This finding echoes Strauss and Parker's (2014) proposition that proactive behavior elicited by extrinsic motivations is less effective.

Scholars have expanded the focus on LMX in three ways. First, they compared LMX with a similar concept, *guanxi,* which can be translated as rapport or connection. Zhang, Li, and Harris (2015) argued that guanxi more describes the relationships developed after working hours/outside the work domain and is relevant in the workplaces where subordinates are very dependent on their leaders. These researchers proposed that guanxi is more

important than LMX to proactive behavior because LMX is rooted in work-related exchanges that emphasize helping each other within the status quo, whereas guanxi more affords long-term psychological safety and thus reduces the short-term risk to challenge this status quo. This proposition was supported with a sample of Chinese employees: while subordinate-rated guanxi and LMX had comparable correlations with taking charge ($r_{guanxi} = .22$, $r_{LMX} = .21$), in the regression model, only the coefficient of guanxi was significant ($\beta = .24$, $p < .01$) but that of LMX was not ($\beta = .06$, *ns*).

Second, scholars have focused on LMX differentiation in teams, which describes the extent to which team members have different levels of LMX with their leaders. Chen, He, and Weng, (2018) found that LMX differentiation had a negative impact on team proactive behavior but this effect became weaker when the differentiation was more based on individuals' task performance and organizational citizenship behavior, which makes the distribution more reasonable. Third, the effect of exchange relationships with higher-level leaders have been examined. Liu, Tangirala, and Ramanujam (2013) found that employees' exchange relationship with skip-level leaders increased employees' voice to the skip-level leader. Moreover, they found that this effect was stronger when employees' direct leaders do not have the resources to solve individuals' concerns, as depicted by a low exchange relationship between the direct leaders and skip-level leaders.

Other Leader-Related Factors

There are some other factors that were found to influence employee proactive behavior, including leaders' personal attributes (**openness to change**, $r = .45$, Tröster & Van Knippenberg, 2012; **self-efficacy**, $r = .17$ & .20, Fast, Burris, & Bartel, 2014; **authentic personality**, $r = .17$, Liang, 2017; **narcissism**, $r = .01$, Liu, Ting-Ju Chiang, Fehr, Xu, & Wang, 2017), affect (**positive affect**, $r = .19$, Liu, Song, Li, & Liao, 2017; **negative affect,** $r = -.07$, Pan & Lin, 2018), and **job embeddedness** ($r = .33$ to 47, Ng & Feldman, 2013).

Proactive motivations were found or implied to be mediators in most of these studies. For example, based on the affect-as-social-information model (Van Kleef, De Dreu, & Manstead, 2010), Liu et al. (2017) found that during an interaction episode, when leaders display positive affect, individuals' positive affect ("energized to") increased. This positive affect, in turn, informed individuals that the environment was safe so that they felt high psychological safety ("can do"), which motivated them to voice more to their leaders.

Summary of leader-related factors

Much attention has been given to leaders as significant others that shapes individual proactivity (see Online Supplement Figure 2 for a summary). Positive leadership styles (e.g., transformational leadership), specific behaviors (e.g., vision), and a high-quality relationship between employees and leaders (LMX) have been found to be positively related to proactive behavior. From simple correlation statistics, we found that positive leadership styles and leader behaviors have similar effect sizes on individual proactive behavior, mostly around .20 to .40. However, there are sometimes associations greater than .50 (e.g., Kuonath et al., 2017), suggesting quite powerful effects. In the case of LMX, there is a large range of associations, suggesting potential moderators of the relationship between this social context factor and individual proactive behavior. Of course leaders can behave negatively too, and studies showed that leaders' abusive supervision, arrogance, verbal aggression, undermining, observational monitoring, narcissism, and LMX differentiation discouraged individual proactive behavior, revealing the "dark" side of some leaders.

In terms of why leadership matters, there is a body of clear evidence that "reason to" and "can do" motivational states serve as the primary mediators between leader-related factors and individual proactive behavior. In comparison, the mediating role of "energized to" motivational states has not been examined much. Individuals' judgments of self-worth, such as their OBSE and perceived influence, were also mediators ("other"). It is important to note

that scholars have theorized the relationship between these judgments and proactive behavior by arguing for their influence on proactive motivation. For example, Tangirala and Ramanujam (2012) argued that perceived influence brings individuals a sense of responsibility to make constructive suggestions, which can be seen as a "reason to" motivational state.

One insight from the review is that most studies have treated leader-related factors as discretionary factors in their models. However, this discretionary focus is perhaps misplaced because it reflects individuals' perception, so it is not known whether leaders' behavior, or the way individuals construct these behaviors, is what influences individuals' proactive behavior. Indeed, the studies that treated leader-related factors as team-level inputs (ambient factors) found similar mediators to those which treated them as discretionary inputs, suggesting that ambient and discretionary factors influence individual proactive behavior through similar mechanisms. Overall, only a few studies have focused on how ambient leader-related factors influence team proactive behavior, so our understanding of the team-level paths linking leadership to proactivity are still very preliminary.

Team-Related Factors as Predictors to Proactive Behavior

Compared with leaders (N=94 studies), teams have not received as much attention in the proactive behavior literature (N= 29). From our review, we found that scholars mainly focused on the effects of team climate and interpersonal interactions with coworkers.

Team Climate

Team climate describes the shared perception of the way things are going, and how things are done, in teams (Reichers & Schneider, 1990). In theory, it should be an ambient factor that pervades the team as a whole, although some scholars have argued that perceived team climate, as a discretionary factor that only affects individuals, could reflect individuals'

cognitive interpretation of the team environment (e.g., Scott & Bruce, 1994). Consequently, we include team climate as both an ambient and discretionary factor in this review.

Proactive-behavior-related climates - including initiative climate (Baer & Frese, 2002; Raub & Liao, 2012), voice climate (Morrison, Wheeler-Smith, & Kamdar, 2011), and innovation climate (Morrison & Phelps, 1999) - describe the perception of whether proactive behavior is encouraged, safe, and supported in the team[5]. Correlations of these climates with individual proactive behavior ranges from -.01[6] (Chen & Hou, 2016) to .34 (Montani, Odoardi, & Battistelli, 2014). In the two studies with team-level proactive behavior as the outcome, the correlations were .30 (Frazier & Bowler, 2015) and .37 (Raub & Liao, 2012).

"Can do" and "reason to" motivational states were the main mediators of the effects of proactive behavior-related climates. For instance, based on the proactive motivation model (Parker et al., 2010), Hong et al. (2016)[7] argued that initiative climate would increase personal initiative through RBSE, intrinsic motivation, and positive affect. But, as we mentioned above, only RBSE was a significant mediator. Choi (2007) found somewhat parallel effects: discretionary innovation climate influenced individual proactive behavior through individuals' felt responsibility for change ("reason to") and psychological empowerment, and ambient innovation climate had a top-down effect on individual proactive behavior through teams' felt responsibility for change ("reason to") and team's psychological empowerment ("other").

Some scholars have focused on climates that are not directly related to proactive behavior yet have found that these climates have a positive effect. Axtell et al. (2000) found that perceived psychological safety climate increased innovative behavior, because it signals

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[5] Voice climate also includes the shared belief that the team could voice effectively (Morrison et al., 2011).

[6] This is a correlation between perceived innovation climate and voice, and is not significant.

[7] Hong and colleagues examined the effect of a department-level climate. But since they treated the department level as being only one level above the individual level, we include this study here.

that there is a low risk in taking the initiative. Wallace, Butts, Johnson, Stevens, and Smith (2016) found that an ambient involvement climate (described as a climate in which the team encourages employee commitment by sharing information and power, encouraging self-development, and rewarding contributions), through satisfying individuals' basic psychological needs, improves their thriving ("other") and hence their innovative behavior. These two studies, respectively, suggest that "can do" and "energized to" motivational states serve as mediators. Finally, Lin and Leung (2014) found that an ambient procedural justice climate increased team identification ("reason to"), which in turn motivated employees to engage into innovative behavior. These correlations with individual proactivity range from .05 to .19.

Interpersonal Interactions with Coworkers

As well as how employees perceive their team environment, as captured by team climate, how members interact with each other in the team also has a great influence on their individual behaviors (Chen & Kanfer, 2006; Chiaburu & Harrison, 2008). During these interactions, members collect information, exchange resources, and alter their behaviors according to the feedback they receive.

There is a body of strong evidence proposing that the **favorable interaction with coworkers** prompts both individual and team proactive behavior. The correlation of this factor with individual proactivity ranges from .01 to .44; the correlation with team proactivity ranges from .44 to .80. For example, as a discretionary input, the perceived trust gained from coworkers was found to motivate individuals to take the risk to set and strive for broader goals than their prescribed job requirements, as described by a flexible role orientation ("reason to"), which in turn improved their proactive behavior (Parker et al., 2006). In a similar vein, the perception of coworker support for safety was found to motivate individuals to reciprocate with a more frequent voice concerning safety (Tucker, Chmiel, Turner,

Hershcovis, & Stride, 2008). At the team level, it was found that when team members treat each other with respect and trust, as depicted by favorable interpersonal norms, the team is likely to engage in the collective proactive behavior, arguably because of the low perceived risk and high perceived favorability of initiating changes (Williams et al., 2010). Brav, Andersson, and Lantz (2009) found that team cooperation increased team proactive behavior because it encourages team members to take on minor dissent to initiate changes. Team support also was found to increase team proactive behavior because it encourages risk-taking behaviors. These authors examined the possibility that team reflexivity, a cognitive factor describing team members collectively reflecting upon and adapting their objectives, strategies, processes, and wider objects (West, Hirst, Richter, & Shipton, 2004), could increase team proactive behavior because it helps team members to engage in constructive criticism, through which they could take specific initiatives to work on. However, they did not find a significant effect, admitting that their measure of reflectivity might be problematic and encouraging more studies on this factor.

By way of contrast, **team conflict**, an important team variable in team-level research (Mathieu, Maynard, Rapp, & Gilson, 2008), was found to be negatively related to proactive behavior. The correlation with individual proactivity ranges from -.14 to -.05. Chen et al. (2011) treated relationship conflict as a demotivating force for the team and argued that it has a negative effect on individual innovative behavior through affective commitment ("reason to") and psychological empowerment ("other"). In Chen's (2011) first study, this proposition was supported. However, in the second, neither mediation path was significant. This might be because the effects were dependent on empowering leadership (Chen et al., 2011). Interestingly, and contrary to Chen et al., Schraub et al. (2014) found that team task conflict, rather than team relationship conflict, had a negative top-down effect on individual personal initiative through affective job-related well-being ("energized to"). They argued that this is

because of the high correlation between these two types of conflicts. More studies are needed to fully understand the role of conflict.

It is worth noting that Lee, Duffy, Scott, and Schippers (2018) found that **being envied by the coworkers** had a double-sword effect on proactive behavior: it was positively related to both positive mood (e.g., active, enthusiastic, proud) and negative mood (e.g., jittery, nervous, distressed), which influenced proactive behavior through work engagement. Besides, Scott and Bruce (1994) did not find a significant correlation between individual innovative behavior and **team-member exchange** (TMX), a similar concept to leader-member exchange that describes high-quality relationships with coworkers. The authors suggested that task interdependence might be a moderator. Unfortunately, this idea has not been examined further.

Other Team-Related Factors

From our review, we identified three studies pointing to other team-related factors. Liu et al. (2015) focused on **coworkers' mood** ($r = .38$ & $.15$). Using the affect-as-social-information model (Van Kleef et al., 2010), they found that the coworker's positive mood could increase an individual's voice towards the coworker, because it signals that this coworker is likely to accept and welcome suggestions, as reflected in the individual's high psychological safety ("can do"). Choi (2007) focused on the **team's vision**, or a general transcendent ideal that represents shared values (Kirkpatrick & Locke, 1996). Perceived team vision affects individual proactive behavior through the individuals' felt responsibility for change ("reason to") and psychological empowerment ("other") because individuals link their own goals and values to the shared ones ($r = .29$). Similarly, shared team vision was found to affect team's felt responsibility for change ("reason to") and psychological empowerment ("other"). These two studies again demonstrate that proactive motivation explains why team factors shape individual proactivity.

Hoch (2013) focused on team members' dispositional trustworthiness and reliability, captured by **team member integrity** ($r = .37$). The author found that high team member integrity, as an ambient input, increased the team's shared leadership, which leads team members to share their ideas, build on each other, identify a common vision, and support each other to realize the vision. As a result, members were highly engaged in the innovative behavior.

Last, social network researchers found that employees' network attributes could influence their proactivity. Venkataramani and Tangirala (2010) found that employees with high **workflow centrality** are likely to perform voice behavior, because of high perceived influence ($r = .28$). Donati, Zappalà, and González-Romá (2016) found that teams with high **friendship network density** are more likely to actively communicate feeling, meanings, and ideas with each other, as described by high **communication network density**. Such high-quality communication is helpful for employee innovative behavior.

Summary

Online Supplement Figure 3 provides a summary of these findings. Scholars have mainly focused on the effects of team climate and interactions with coworkers in teams, showing that individuals engage in proactive behavior when there is a positive climate and when interpersonal interactions are favorable. Our review shows mostly positive effects of these social factors, with just a couple of exceptions, including an insignificant correlation between TMX and individual innovative behavior, and somewhat inconsistent evidence about the effective of team conflict. There are also reasonably large ranges in correlations, such as the link between proactive behavior-related climates and individual proactive behavior (ranging from $r = -.01$ to $r = .34$), which suggests that there are likely to be moderators of some relationships. Overall though, because most team-related factors (e.g., involvement climate, perceived coworker support) have received attention only in a few studies, it's not possible to

make any firm conclusions about the size of these factors' correlation with proactive behavior.

There is clear evidence that proactive motivation variables mediate the effects of team-related factors on proactive behavior, especially "can do" and "reason to" motivational states, with only a few study finding that "energized to" states also serve as mediators. Work engagement, psychological empowerment, thriving and perceived influence were also found to explain the effects of team-related factors, which further suggests the mediating role of proactive motivations.

Finally, several studies have focused on the role of ambient team-related factors, indicating ambient social inputs affect both team and individual proactive behavior. Interestingly, Choi (2007) showed that the team-level path to individual proactive behavior is similar to the individual-level one, which is consistent with Chen and Kanfer's (2006) idea that, across the team and individual levels, motivational states have similar functions.

Organization-Related Factors as Predictors to Proactive Behavior

Scholars have mainly focused on top management openness, perceived organization support (POS), organization climate, and workplace relational experiences as organization-related predictors for proactive behavior.

Top Management Openness and Perceived Organization Support

Top management openness describes how much individuals perceive that top management encourages and welcomes the suggestions and comments from below (Morrison & Phelps, 1999). Its correlation with individual proactive behavior was quite varied, ranging from -.04 (Premeaux & Bedeian, 2003) to .29 (Morrison & Phelps, 1999). Ashford, Rothbard, Piderit, and Dutton, (1998) found that this factor was positively related to individuals' willingness to promote gender-related issues, because it increases individuals' confidence in making the change happen, as depicted by the perceived probability of success ("can do").

Adopting a similar logic, Morrison and Phelps (1999) found top management openness was positively related to taking charge because it indicates a low risk of and high support for initiating changes ("can do").

Perceived organization support (POS) describes the individual perception that the organization values employees' contributions and cares about their well-being (Eisenberger, Armeli, Rexwinkel, Lynch, & Rhoades, 2001). Its correlation with individual proactive behavior ranges from .03 (Farh, Hackett, & Liang, 2007) to .15 (Caesens, Marique, Hanin, & Stinglhamber, 2016). As to how POS might affect proactive behavior, there is some evidence that it shapes "can do" motivation. For example, Ashford et al. (1998) found that POS increased individuals' willingness to sell issues by enhancing the perceived probability of achieving success in such an activity and lowering related image risk. Yuan and Woodman (2010) found that POS affects individuals' innovative behavior through expected image risk and image gain (note that as we mentioned above, expected image gain had a negative effect on individual innovative behavior). "Reason to" motivational states are also potential mediators. For instance, Caesens et al. (2016) found receiving support from the organization would made individuals feel that they have the obligation to reciprocate by performing the proactive behavior. They also found that POS could affect individuals' work engagement, which, as Parker and Griffin (2011) argued, could provide the "energized to" motivation to perform proactivity.

Two other studies deserve specific attention. First, Burnett, Chiaburu, Shapiro, and Li (2015) found a "too-much-of-a-good-thing" relationship between POS and taking charge. They argued that on one hand, based on social exchange theory (Blau, 1964), POS increases individuals' taking charge through generating a sense of reciprocity and positive affect. On the other hand, according to the threat-to-self-esteem model (Fisher, Nadler, & Whitcher-Alagna, 1982), when support is overly abundant, individuals are likely to feel that they are

not trusted to fulfill their tasks without help. Thus, the relationship should be inverted U-shape rather than simply linear.

Second, in a study of junior doctors, Parker, Johnson, Collins, and Nguyen (2013) focused on the actual support individuals received, namely structural support (in the form of an advanced practice nurse on shift), rather than perceptions of support. They argued that the traditional focus on perceived support makes the causal effects of support less clear because individuals who need support might be more likely to seek out, or make use, of support[8]. Using a within-person quasi-experiment, they found that, compared with a condition without structural support, in the intervention condition with structural support, junior doctors reported significantly more proactive work behavior. Moreover, they found that only those doctors with a low negative affect had a boost in their proactivity as a result of the intervention. The authors reasoned that this occurred because these individuals have sufficient resources to make use of the structural support to enhance their proactive behavior. On the other hand, doctors with a high negative affect benefited from structural support in terms of a reduced workload, consistent with the idea that these more stressed doctors are likely to use the support provided to protect future loss rather than being proactive.

Organization Climate

Organization climate describes whether a behavior is encouraged and supported in the organization. It is different from team climate in that it describes the perception of the broader organizational context. Scholars have mainly focused on individual perceptions of the climate, which reflect individuals' cognitive representations of the organization environment (Scott & Bruce, 1994). Its correlation with individual proactive behavior ranged from .00 (Kang, Matusik, Kim, & Phillips, 2016) to .20 (Eldor & Harpaz, 2016).

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[8] Caesens et al. (2016) examined whether there is a reciprocal prelateship between POS and proactive behavior. They found that only Time 1 POS predicts Time 2 proactivity, but Time 2 proactivity could not predict Time 1 POS.

Various proactive behavior-oriented organizational climates have been shown to facilitate proactive behavior, with proactive motivations appearing to be the key mechanisms. For example, Ashford et al. (1998) found that an organization norm that favors issue selling behavior had a positive effect on individuals' willingness to sell a gender-equality issue, because it reduced the perceived risk that how he or she is seen by others would be negatively affected ("can do"). Kang et al. (2016) collected a matched sample of managers and their CEOs. They found that managers in high organization innovation climate developed a high passion for innovation through identifying with and internalizing the innovation vision. This passion ("energized to") then predicted innovative behavior rated by CEOs.

Workplace Interpersonal Interactions

Scholars have also been interested in the interpersonal interactions in the workplace, beyond those with team-mates and leaders. **Favorable workplace interactions** were found to have positive effects on individual proactive behavior, mainly through "can do" motivational states. Its correlation with individual proactivity ranged from .01 to .57. For example, Ashford et al. (1998) found that a high quality of relationship with the person/s to whom individuals sell an issue (usually top management) could increase their perception of the probability of selling success and lower their expected image risk so that they show a high willingness to sell issues. Ng and Lucianetti (2016) found that individuals' self-efficacy increased because of their trust in the organization and perceived respect from colleagues. With high self-efficacy, they were more likely to engage in the innovative behavior. Vinarski-Peretz, Binyamin, and Carmeli (2011) found individuals are likely to be affectively committed to their organizations when they have favorable relationship experiences with their colleagues, characterized by positive regard, mutuality, and relational vitality. This commitment ("reason to") encouraged them to perform innovative behaviors.

Wu, Liu, Kwan, and Lee (2016) focused on a negative factor: **workplace ostracism** (r = -.37 to -.07). Based on social identification theory (Ashforth & Mael, 1989), they argued that when individuals perceived that they are ostracized, they feel that they are different from, unaccepted by, and not valued by others, so that they developed a low level of identification with the organization ("reason to"), which in turn decreased their motivation to be proactive. Of note, they found that this mediation existed even after controlling for other possible mechanisms (felt obligation, OBSE, and job engagement). **Perceived organization politics** (i.e., the perception that the workplaces are characterized by staff's self-serving intentions) was negatively related to individual proactive behavior (r = -.24, Yang, 2017), with "can do" motivation, i.e., psychological safety, as the mediator (r = -.31, Li, Wu, Liu, Kwan, & Liu, 2014): the greater the perceived politics, the more unsafe individuals felt about being proactive. Besides, Wu, Kwan, Wu, and Ma (2018) found that the **negative gossip in the workplaces** could serve as a stressor to exhaust employees' resource, described by emotional exhaustion, and so reduce their proactive behavior (r = -.22).

Summary

We summarize the findings in Online Supplement Figure 4. Research to date shows that individuals are likely to engage in proactive behavior when top management has a positive attitude towards changes, the organization cares about them, the environment encourages proactive behavior, and colleagues interact with them in a positive way. But too much of a good thing can be a bad thing: POS was found to have a curvilinear effect on taking charge (Burnett et al., 2015). As with leader and team factors, there are also negative organizational factors (ostracism and perceived politics) that reduce proactive behavior. With respect to mediation, there is good evidence for "can do", "reason to" and "energized to" motivational states as explaining the links between organization-related factors and proactive behavior.

Importantly, though, overall the correlations between organization-related factors and individual proactive behavior are not very high, perhaps because - compared with leader- and team-related ones – these factors are more distal to individual behavior. The large range and low correlations also suggest possible moderation effects, especially of the effects of top management openness. Finally, with just one exception (Kang et al., 2016), the studies about organization-related factors focus on individual perceptions, so they examine the individual-level paths. As a result, although these factors describe organizational characteristics, we do not know how proactive behavior unfolds at the level of the organization as a result of social context factors.

Interaction Effects of Social Context Factors

Scholars have examined the interaction effects among social context factors and between social context factors and individual attributes (e.g., personality, motivation) as well as job characteristics. These studies support the idea that the social context conditions the relationships among other factors, and that, as we mentioned above, there are moderators on the relationship between social context factors and proactive behavior.

We organize the findings based on the motivational fit perspective (Chen & Kanfer, 2006). The core idea of this perspective is that "individuals who are predisposed to being motivated (e.g., have higher levels of achievement motivation) are unlikely to be motivated in situations that do not allow them to express their motivational tendencies" (Chen & Kanfer, 2006, p. 255). That is, motivational inputs from personal and contextual factors should exert stronger influences when they function in a consistent way (Chen et al., 2011). For example, enriched job characteristics have stronger effects on those with a high (vs low) need for growth (Hackman & Oldham, 1976); and LMX has a stronger effect on individual psychological empowerment when the ambient empowering leadership is high (vs low) (Chen, Kirkman, Kanfer, Allen, & Rosen, 2007). Accordingly, social context factors should

have stronger effects on proactive behavior when there is a "fit" with individual attributes and contextual factors, but weaker effects when there is a "misfit" with these factors.

Interactions with Individual Attributes

Taking a person-environment interactionist perspective, Parker et al. (2010) proposed that individual attributes interact with situational factors to affect proactive motivations and the proactive behavior process. They specifically drew on trait activation theory (Tett & Burnett, 2003), which proposes that individual personalities have a stronger effect when there are similar cues in the context. This theory could be treated as a specific example of the motivational fit perspective and has received much support. For example, Griffin et al. (2010) found that the perceived leader vision positively interacts with RBSE to affect proactive behavior because only those with high RBSE would take the challenge to create changes. Based on the regulatory fit perspective, Wallace et al. (2013) found that an ambient involvement climate positively interacts with an individual promotion focus to affect thriving and so proactive behavior, because a high promotion focus could enable individuals to better utilize such an involvement climate. Based on the cognitive appraisal theory, Madrid et al. (2014) argued that because the goal presented by an innovative climate fits the values, beliefs, and commitments underlying an openness to change, individuals with a high openness to experience would appraise this innovative climate more positively. The authors found results consistent with this reasoning.

Consistent with the motivational fit perspective, scholars have also found that when social context factors and individual attributes do not fit each other, they have negative interaction effects. For example, power distance was found to be negatively related to proactive behavior, because those with a high power distance perceive a low likelihood that things will change even if they take the initiative (Wei, Zhang, & Chen, 2015). Farh et al. (2007) and Wei et al. (2015) found that power distance negatively interacts with POS and

supervisor delegation to affect individual proactive behavior. Besides, Chen and Aryee (2007) found that in a sample of Chinese employees, traditionality buffers the effect of delegation on individual innovative behavior through OBSE and perceived insider status, because highly traditional Chinese employees are likely to accept status differences and act as subordinates when this is their allocated role. Focusing on employees' prosocial motivation, Lebel and Patil (2018) found that it weakened the negative relationship between discoursing leaderships (e.g., distrust in leadership) and proactive behavior.

However, other studies showed that sometimes either elements in the social context or in individual attributes are so strong that one may overpower the influence of the other. For example, Lam and Mayer (2014) found that when the ambient service climate is high, the effect of customer orientation on voice is insignificant, because the climate provides strong cues to individuals to do the best to serve customers so that all individuals, despite different level of customer orientation, would perform voice behavior. Li et al. (2013) found that when team identification, proactive personality, and learning goal orientation are high, the effect of transformational leadership on proactive behavior becomes insignificant. They argued that this is because these variables substitute for the functions provided by transformational leadership. These studies thus challenge the motivational fit perspective.

Interaction with Contextual Factors

The motivational fit perspective has received some support from the studies about the interaction among contextual factors: those with inconsistent motivational effects buffer each other, and with consistent effects enhance each other. For example, Chen et al. (2011) found that team conflict negatively interacted with empowering leadership to influence innovative behavior through psychological empowerment and affective commitment[9]. Leung, Huang, Su, and Lu (2011) found that when perceived support for innovation is high, the U-shape

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[9] This moderated mediation effect was only significant in Chen et al.'s (2011) Study 1.

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relationship between role stress and innovative behavior does not exist, because the support assists individuals to deal with the negative effect of role stress. Gao, Janssen, and Shi (2011) found that empowering leadership enhances the effect of trust in the leader on voice, because empowering leadership invites and encourages individuals to translate their trust into suggestion making behaviors.

At the same time, there are serious challenges to the motivational perspective, suggesting complexity. Thus, some studies have shown that contextual factors that are consistent in their motivational effects buffer each other. For example, Hong et al. (2016) proposed that an initiative-enhanced human resource management system (which describes the organization's priority towards initiative among employees) would enhance the effect of the ambient empowering leadership on the team's initiative climate, which, in turn, affects individual proactive behavior. This is because: (1) such a system attracts, selects, and retains individuals who are ready to be proactive and should be more responsive to an empowering leadership; (2) the consistency between such a system and an empowering leadership could have a synergistic effect on the formation of the initiative climate. However, the results showed a substitution effect. The authors explained that the system has already set strong and clear signals to individuals related to being proactive and thus makes an empowering leadership less necessary, which contrasts with the proposition offered by the motivational fit perspective. In addition, Liu et al. (2015) found that coworker exchange and the relative status between the individual and the coworker could buffer the effect of the coworker's mood on the individual's psychological safety, because a high coworker exchange would reduce the need to monitor the coworker's mood and a relatively high status would lower the motivation to pay attention to the social cues. Lam and Mayer (2014) found that when the ambient service climate is high, the effect of job autonomy on individual voice becomes insignificant because the climate has provided strong cues for individuals.

Summary

Overall, there is certainly good evidence for the motivational fit perspective on how social context factors interact with individual differences and with context factors. But there are also contrary effects, suggesting that there are moderators on the effect of motivational fit. For example, Den Hartog and Belschak (2012) showed a three-way interaction effect among perceived transformational leadership, RBSE, and job autonomy on individual proactive behavior. The authors explained that when job autonomy is low, individuals with high RBSE make use of clear mastery cues to show initiative, making leadership less salient. When job autonomy is high, such cues are absent. As a result, only those with high RBSE could thrive on transformational leaders' high expectations, ambitious vision, and encouragement for extra efforts. In other words, when job autonomy is high, there is a motivational fit effect between transformational leadership and RBSE; but when job autonomy is low, the effect goes in the opposite direction.

Another example is Takeuchi, Chen, and Cheung's (2012) study, which showed a three-way interaction effect among perceived interpersonal justice, perceived procedural justice, and perceived distributive justice on individual voice. They argued that perceived interpersonal justice provides the interpersonal cues to manage the uncertainty to speak up, and perceived procedure justice provides structure-related cues. According to the elaboration likelihood model (Petty & Cacioppo, 1986), when perceived distributive justice is high, individuals do not worry about their material outcomes, and thus tend to use either interpersonal or procedural justice as the heuristic to manage uncertainty; but when perceived distributive justice is low, individuals perceive that their material outcomes are at risk, and thus try to scrutinize all possible information. In other words, when perceived distributive justice is high, there is strong challenge to the motivational fit effect; when perceived distributive justice low, the challenge becomes weaker.

Discussion and Future Directions

We have provided a comprehensive review of a purposive sample of 141 studies focusing on the relationship between the social context and proactive behavior. The findings from several different social factors, and multiple forms of proactive behavior, are synthesized into one model (Online Supplement Figure 5). As this depicts, scholars have mostly focused on leader-related factors as the social antecedents to proactive behavior, with some attention to the effects of team-related factors and relatively little attention to organization-related factors. Overall, irrespective of the form of proactive behavior, there is good evidence that leaders' positive behaviors, favorable team and organization climates, perceived top management openness and support from the organization, and high-quality interaction experiences with colleagues increase individual and team proactive behavior. Comparatively fewer studies have examined when the social context becomes an obstacle for proactive behavior, although there is some evidence of the "dark" side of leader-related factors (leaders' abusive supervision, undermining, verbal aggression, observational monitoring, and arrogance behaviors and narcissistic personality), team-related factors (LMX differentiation in teams, team conflicts) and organizational factors (workplace ostracism, and perceived organization politics).

Importantly, proactive motivational states, which we have identified as "can do" (e.g., RBSE), "reason to" (e.g., intrinsic motivation), and "energized to" (e.g., positive affect) motivational states, were found to be key mechanisms explaining why the social context affects proactivity. As to "reason to" motivational states, consistent with the propositions by Parker et al. (2010) and Strauss and Parker (2014), the research has mostly focused on more self-determined forms of motivation, such as intrinsic motivation (Tu & Lu, 2013), autonomous motivation (Wu & Parker, 2017), identification (Liu et al., 2010), and affective commitment (Chen et al., 2011). We are somewhat surprised to find that the motivation to

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reciprocate (e.g., Caesens et al., 2016), which is a less self-determined motivation, was identified to be a mediator; a point we return to later. As to "can do" motivational states, self-efficacy perceptions, such as RBSE (Wu & Parker, 2017), perceived risk of being proactive, such as expected image gain and risk (Yuan & Woodman, 2010), and perceived probability of success (Ashford et al., 1998) were identified as mediators. Comparably fewer studies have examined "energized to" motivational states as the mediators, so we have a more limited understanding of how individuals' "hot" affective motivational states could explain the relationship between social context factors and proactivity.

Scholars have identified some mediators that could not be directly classified into any of these three categories, including psychological empowerment, work engagement, thriving, and judgment of self-worth in the workplaces (i.e., OBSE, perceived influence, and perceived status). To explain why these variables operate as mediators, researchers have turned to consider their motivational function. From this perspective, these factors still suggest the mediation roles of proactive motivation. For example, one reason why work engagement influences proactive behavior is that it is argued to increase positive affect, an "energized to" state (Schmitt et al., 2006). Similarly, perceived influence affects proactive behavior because it makes individuals feel that they have the responsibility to ("reason to") and capability to ("can do") take initiatives (Tangirala & Ramanujam, 2012).

As to the effect sizes of the impact of social context factors on proactive behavior, due to the narrative nature of the current review and the fact that some factors, such as perceived organization politics and TMX, have not received much attention, we are not able to come to a clear conclusion about which factor is more important than others. Even so, from our observation of the correlations mentioned in the current review, leader- and team-related factors seem to have slightly stronger effects than organization-related factors, although, in their meta-analysis of voice, Chiaburu et al. (2013) concluded that the effects of positive

leader-, team-, and organization-related factors do not differ statistically. Since many studies have emerged after their paper, we encourage an expanded meta-analysis to identify whether there are differences in the sizes of social context factors' effects on proactive behavior. Also, because we found that mainly proactive motivations were identified as the mediators and Chiaburu et al. called for more attention to the underlying mechanisms in the relationship between the social context and proactive behavior, it would be interesting to meta-analytically examine the mediation paths.

Another finding from our observation of the correlations is that the ranges of the effect sizes of social context factors are usually large. For example, the correlation between transformational leadership and individual proactive behavior ranges from .06 to .51 in the identified papers. We think this suggests that there are significant moderators of the relationship between the social context and proactive behavior. Scholars have examined the interaction effects between social context factors and individual attributes as well as contextual factors. The results show inconsistent support for the motivational fit perspective that when two stimuli have consistent motivational patterns, they enhance each other's effect. We elaborate on this topic shortly.

Finally, scholars have mainly focused on the effects of discretionary factors and given comparably less attention to ambient factors, as evidenced by the numbers of Paths A, B, and C in Online Supplement Figure 5. Context exists at multiple levels (Bamberger, 2008; Kozlowski & Klein, 2000; Johns, 2006), so proactivity might develop at different levels of social context in the organizations. Thus, the lack of focus on ambient social context factors is problematic, at least from two aspects. First, most discretionary factors are about individual perceptions of the social context. This leads to some confusion about whether it is the way individuals cognitively perceive their social context or the actual social context itself that affects proactive behavior. Also, as Parker et al. (2013) pointed out, those who need resources

to make changes would actively seek them, thus making the causality of the relationship between the perceptions and proactive behavior unclear. Second, some social aspects of the context are collective, so they cannot be captured by discretionary factors, or at least their meanings change when conceptualized as discretionary factors. For example, team climate, as an ambient factor, reflects the shared perception of the appropriate behaviors in the teams, but perceived climate, as a discretionary factor, only reflects individuals' cognitive representation of the team environment. Thus, ambient social context factors deserve more attention.

The existing studies about ambient social context factors have shown that they influence individual proactive behavior through proactive motivation, similar to discretionary social context factors, as depicted by Path B in Online Supplement Figure 5, although this observation needs more examination. Only a few studies have examined Path C, which is about the mediating role of team-level factors. The small number of studies about Path C2 shows that our understanding about the effect of social context factors on proactive team behavior remains limited. More studies taking a multi-level perspective about the relationship between the social context and proactive behavior are needed, otherwise, we may get an overly simplistic, and even biased, view about how proactive behavior unfolds in the social context.

Our findings contain important practical implications for practitioners. First, we reveal that there are powerful tools to enhance proactive behavior, such as to adopt a transformational leadership style (Chen et al., 2013), cultivate an innovation climate (Choi, 2007) and improve interpersonal workplace experiences (Vinarski-Peretz et al., 2016). Second, we demonstrate that practitioners could adopt methods which correspond to specific needs. For example, for employees who lack "can do" motivational states, managers could create an initiative promoting climate (Hong et al., 2016). Third, we emphasize that social interventions are contingent on other factors. Thus, practitioners should take a comprehensive

view of the individuals' attributes, the social context, job characteristics and so on, to design effective methods to enhance proactive behavior.

Future Research Directions

Based on the review, we identify twelve key research directions.

1. Focus More on Factors Beyond Leader-Related Factors

Team- and organization-related factors have not received as much attention as leader-related factors. Yet employees work within an organization context, and often have more frequent interactions with their team members than with their leaders (Chiaburu & Harrison, 2008). We do not have sufficient understanding of, for example, how organization cultures (e.g., collectivism vs individualism), coworkers' personalities (e.g., proactive personality), or coworker behaviors (e.g., mentoring, incivility) influence proactive behavior. Further, organizations are embedded in a broader social context, which might impact proactive behavior. For example, in high-tech industries where the pressure exists for innovation and initiative, and in countries that encourage risk taking behaivors, employees might engage in a high level of proactive behavior. A largely ignored social subject is the influence of customers, with whom employees might have intense interactions during their work, especially in service industries. Scholars have emphasized that employees should proactively improve their services to customers (e.g., Raub & Liao, 2012), but it would be interesting to look at the flipside: how do customers influence employees' proactive behavior (e.g., Yoo, 2017)? For example, would mistreatment by customers decrease individuals' proactive behavior or encourage their voice? In short, we recommend that researchers: *consider, in greater depth, how social context factors beyond leader-related variables influence proactive behavior.*

2. *Focus More on When the Social Context is an Obstacle for Proactive Behavior*

Existing studies have mainly honed in how the social context fosters proactive behavior in the workplace, but have given much less attention to the "dark" side. Due to negativity bias and the interpersonally risky nature of proactive behavior, individuals might be especially sensitive to demotivators in the social context. To ignore these factors risks undermining the influence of the social context, and misleads practitioners into not paying enough attention to the potential risks that diminish proactive behavior. Moreover, Chen et al. (2011) argued that in reality individuals are exposed to both positive and negative factors simultaneously, so it is important to examine how they compete and interact to influence outcomes. For example, does a Machiavellian leader influence proactive behavior positively or negatively? Does it buffer the effects of POS, or make it more salient? In sum, we recommend *further examination of the circumstances in which the social context is an obstacle for proactive behavior.*

3. *Clarify the Distinctiveness of Different Social Context Factors*

The large number of similar factors identified puts us at the risk of reinventing the wheel. For example, do transformational leadership and empowering leadership play different roles in shaping proactive behavior? How about organization innovation climate and team innovation climate? Do trust in the organization and trust in coworkers influence proactive behavior differently? We need more studies that consider several factors at once to ascertain their unique effects. For example, Parker et al. (2006) showed that perceived supportive supervision does not have a significant effect on proactive behavior, but perceived coworker trust does; Ashford et al. (1998) found that POS, issue selling norms, and relationship quality all influence the perceived risk to one's image risk of selling issues, but these norms do not affect the perceived probability of the successful selling of these issues. In

short, we recommend the *scholarly comparison of the distinctiveness (e.g., relative effect sizes, unique mechanisms) of different social context factors.*

4. *Focus on "Energized to" States and Reconsider the Effect of the Reciprocity Motive*

Overall, "energized to" motivational states have received less attention, which means that we have relatively little idea about whether and how the social context factors foster the "hot" affective states that drive proactive behavior. The types of affective states should also be expanded. For example, can the social context affect one's anger, frustration, fear, or enthusiasm, which are theoretically related to proactive behavior (Bindl, Parker, Totterdell, & Hagger-Johnson, 2012; Lebel, 2016, 2017)?

Somewhat surprisingly, the motivation to reciprocate was shown to be a mediating mechanism between the social context and proactive behavior. We think this idea needs more consideration. As the reactive aspect of reciprocity is inconsistent with the self-starting nature of proactive behavior (Spitzmuller & Van Dyne, 2013), proactive behavior stimulated by social exchange might be unsustainable and of a low quality. It is also unclear why individuals choose interpersonally risky proactive behavior rather than the safe affiliation behavior for a reciprocal action. For example, Kalshoven et al. (2013) showed that perceived ethical leadership affected personal initiative through a social exchange process, but it is important to assess the longer-term sustainability of the exchange relationship. In short, we recommend *further examination of the mediating role of "energized to" motivational states and social exchange motivations in the relationships between the social context and proactive behavior.*

5. *Examine the Relationship Between Proactive Motivation and "Other" Mediators*

As discussed, scholars have identified other mediators, such as OBSE, psychological empowerment, and work engagement, beyond proactive motivation. However, they have mainly argued that these variables influence proactive behavior due to their motivational

functions. For example, Chen and Aryee (2007) proposed that individuals with high OBSE are motivated to prove their positive self-views. In other words, these individuals see taking risks as consistent with their values and goals ("reason to"). In addition, individuals with a high perceived status are motivated to take the responsibility to promote mutual future well-being through showing discretionary efforts ("reason to"). Studies are needed to examine whether they influence proactive behavior through proactive motivation or have additive explanatory effects after controlling for proactive motivation. In short, we recommend *investigation of the relationships between proactive motivations and other identified mediators in this review.*

6. *Examine the Mediation Effects of Cognition and Capacity Factors*

Proactive behavior entails cognitively projecting oneself into future events and assessing possible outcomes (Wu, Parker, & de Jong, 2014). Accordingly, one's cognition-related factors might serve as mechanisms linking social factors with proactive behavior. For example, since proactive behavior entails envisioning a different future and transformational leadership inspires individuals to strive for a desirable vision, high work-based construal level might be a mediator between these two variables. In addition, individuals not only need to generate proactive goals to bring about changes but also need the relevant capacities to strive for these goals (Parker et al., 2010). In this sense, the various capabilities involved in proactive behavior might also explain why the social context affects proactive behavior. For example, Parker and Wu (2014) proposed that the capacities of long-term thinking and integrated understanding could mediate leaders' effects on individual proactive behavior. In short, we recommend *exploration of the mediation effects of cognition and capacity factors* to reveal the non-motivational effects of proactive behavior.

7. *Examine the Too-Much-of-a-Good(Bad)-Thing Effect*

 Burnett et al. (2015) found that POS has a curvilinear effect on taking charge because of two competing mechanisms: social exchange and the threat to self-esteem. We encourage scholars to pay more attention to the potentially negative mechanisms operating against the positive mechanism related to social context factors. For example, Den Hartog and Belschak (2017) argued that transformational leadership might stifle proactive behavior, e.g., through building too much dependence. Similarly, the negative social context factors might not always be detrimental, e.g., perceived abusive supervision might motivate individuals to prove that the leader is wrong (Tepper et al., 2017). Indeed, researchers have argued that to be proactive, a certain level of dissatisfaction with the status quo is needed. In this sense, could there be an "optimal" level of negative social experiences? For example, could perceived abusive supervision have a curvilinear effect on individual proactive behavior? In short, we encourage scholars *to examine whether social context factors have influences in opposite directions so that there are too-much-of-a-good(bad)-thing effects.*

8. *Examine the Distinct Explanatory and Interaction Effects of Different Mediators*

The large number of mediators is helpful to gain new insights into why social context matters to proactive behavior, but at the same time brings the problem that we are not clear about the relative explanatory power of each mediator. For example, Strauss and Parker (2014) proposed that intrinsic and extrinsic forms of "reason to" states have different effects on proactive behavior. The relative role of "reason to" and "can do" motivation is also interesting. On the one hand, Parker et al. (2010) argued that, based on construal level theory (Liberman & Trope, 1998), for distant proactive goals, "reason to" should be more important than "can do". On the other hand, Chen et al. (2013), Hong et al. (2016), and Walumbwa and Hartnell (2011) consistently found that when putting "can do" and "reason to" motivational states together, only "can do" states are the significant mediator. This implies that the social

context influences individual proactive behavior more through the "can do" paradigm, which is consistent with the interpersonally risky nature of the proactive behavior. We encourage scholars to replicate the findings, with different social context factors at different levels as predictors. Moreover, according to proactive motivation model (Parker et al. 2010), different motivational states might interactively influence proactive behavior. In this sense, it would be interesting to examine whether these different mechanisms could exaggerate or attenuate each other's effects. For example, since transformational leadership was found to influence proactive behavior through both "reason to" and "can do" motivational states, could both mechanisms exaggerate each other's effect? In short, we recommend *investigation of the distinct explanatory and possible interactive effects of different mediators.*

9. *Further Examine the Interaction Effects of Social Context Factors*

Existing studies have produced contrasting evidence for the motivational fit perspective that social context factors enhance the effects of other factors that have consistent motivating functions and decrease the effects of other factors that have inconsistent motivating functions. One explanation is that there are other factors that could determine the *need* for both or either motivator. In this case, researchers could rely on theories that describe individuals' *need* to pay attention to the social context to examine under which circumstances the motivational fit effect would occur. For example, social information processing theory (Salancik & Pfeffer, 1978) proposes that high situational uncertainty increases individuals' need for social information, resulting in the prediction that, when uncertainty is high, the motivational fit effect would happen.

Another possible explanation is that motivational fit depends on the functions of the variables. For example, Wu and Li (2017) differentiated proactive behavior-related personality traits into cognitive (e.g., need for cognition), affective (e.g., trait positive affect), instrumental (e.g., proactive personality), and interpersonal (e.g., attachment styles) ones. A

social context providing different functions might enhance these traits' effect (e.g., initiative climate and need for cognition) and, with schematically related cues, might activate corresponding traits (e.g., leader support and attachment styles, Wu & Parker, 2017). But a social context with similar functions to the traits might buffer the effect of these traits (e.g., transformational leadership and proactive personality, Li et al., 2013).

We acknowledge that these are preliminary explanations of when motivation fit effects happen, and when they do not. Our main aim is to encourage research into *further examination of the interaction.*

10. Focus More on Ambient Social Context Factors

Discretionary factors mainly describe individuals' own experiences and how individuals perceive the social context and ambient factors capture the collective properties in the social context. Given the relatively less understanding of ambient factors, we encourage more relevant studies. Specifically, we encourage scholars to examine whether the relationship between the social context and proactive behavior is homologous across the levels of the team and, where possible, the organization (Chen & Kanfer, 2006). Such studies will help us gain insight into how the social context affects proactive team behavior; a neglected topic. As Harris and Kirkman (2017) proposed, to deal with high uncertainty in workplaces (Griffin et al., 2007), teams need to be effective. Since proactive behavior reflects person-environment interactions, the social context should have a significant effect on proactive team behavior. We have little insight as to whether, how, and under which circumstances the social context affects proactive team behavior.

To elaborate, researchers could examine if Paths C and A in Figure 5 are similar. Chen and Kanfer (2006) proposed that motivational states function similarly at the team and individual levels, thus we could expect that ambient social context factors influence proactive individual and team behavior through similar mediators to discretionary ones. But at the same

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time, as Mathieu et al. (2008) have stated, at the team level there are some variables describing the processes and emergent states that do not exist at the individual level, such as the transactive memory system. In this case, ambient social context factors might have unique influences on proactive behavior through these team processes and states.

To conduct such examinations, researchers should include multiple paths. For example, Tu and Lu (2013) investigated the effects of perceived individual and perceived team ethical leadership on individual innovative behavior through intrinsic individual and team motivation (Paths A, B, and C1) and showed homologous effects at different levels. In the future, scholars should keep asking, for example, what is the difference between perceived transformational leadership and ambient transformational leadership? Are the effects of perceived climate and team climate similar? What are the unique team-level mediators? In short, we recommend *more focus on ambient social context factors.*

11. Examine Bottom-Up Effects of Proactivity on Context

As Bamberger (2008) suggested, it would be interesting to explore and explain the bottom-up processes–such as how discretionary social context factors affect proactive team and organization behavior. Specifically, Chen and Kanfer (2006) have proposed Path G through which the motivational states of the team and the individual might influence each other, and Path H wherein proactive individual behavior might influence proactive team behavior.   For example, individuals confident in their abilities (self-efficacy, "can do") will perform their roles well and also be confident in their teams' capability (team efficacy, "can do"). In other words, "can do" related discretionary factors might shape proactive team behavior via team efficacy (Path G). Also, Chen and Kanfer (2006) have described a social learning process (e.g., behavior modeling, social contagion) through which individual behavior contributes to collective actions (Chen et al., 2013), suggesting that discretionary factors could shape proactive team behavior through proactive individual behavior (Path H).

However, until now, no studies have examined these two paths. We think this might be because of the lack of a relevant theoretical framework, thus we hope that we could encourage future studies. In short, we encourage scholars *to examine the bottom-up effect of discretionary social context factors on proactive team behavior.*

12. Examine Organization-Level Paths

Organizations might have unique influences on proactive behavior through their systems and structures, but this is largely unknown to us at this stage. As a high leverage for organizational success (Crant, 2000), proactive behavior at the organization level should contain important meaning for organizations and is worth more attention. Moreover, examining organization-level paths gives us the opportunity to gain "new ways of seeing" the effects of the social context. For example, after-event-review-based interventions were found to increase team effectiveness through shaping the interactions in teams (e.g., Vashdi, Bamberger, & Erez, 2013). Recently Weiss, Kolbe, Grote, Spahn, and Grande (2017) found that this technic could improve team member voice. Thus, it is likely that when organizations adopt specific interventions (or redesign their systems), they could improve individual, team, and even organization proactivity through changing the interpersonal stimuli in the organizations. In the industrial relations literature, Arthur and Aiman-Smith (2001) found that introducing a gainsharing plan could increase the number of suggestions that promote organizational learning. This implies that by changing the relationship between employees and the organization gainsharing plan – obviously a social context factor – could increase organization voice. In the international business literature, Newman and Nollen (1996) found that the congruence between management practices and the national culture would influence organization performance. In this case, we expect that the national culture, as a country-level social context factor, could have an indirect effect on organizational proactive behavior. In short, we recommend *extending the scope of research to the organization-level path.*

Conclusion

From an interactionist perspective, the social context plays a critical role in shaping proactive behavior in workplaces. Our comprehensive review closes the gaps created by a disparate literature studying multiple social context factors and multiple proactive behaviors. We encourage scholars to further investigate the relationship between the social context and proactive behavior, using the integrative model depicted in Online Supplement Figure 5. Most importantly, we hope that, with this review, we encourage researchers to take the initiative to address these opportunities, thus creating a favorable social context for their research-related proactive behavior!