A meta-analytic review of servant leadership consequences: The moderating roles of cultural factors

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Abstract
The past decade has witnessed growing interests in empirically examining the effectiveness of servant leadership in management research. Our study reviews the literature on servant leadership and analyzes the relationship between servant leadership and outcome variables. Drawing on social exchange theory, this study uses meta-analysis to find that servant leadership is positively related to followers’ job-related outcomes (e.g., psychological empowerment, organizational commitment, service quality), leader-related outcomes (e.g., leader effectiveness), and group-related outcomes (e.g., group service performance). Further, we find that the relationships between servant leadership and its outcomes are moderated by cultural factors (i.e., traditionality, masculinity, individualism, and power distance). Finally, we examine the incremental validity of servant leadership by taking transformational leadership into account and comparing their effects on job performance and organizational citizenship behavior (OCB) via leader-member exchange (LMX). Implications for theory and practice are discussed, and an agenda for future research is proposed.

Keywords: Servant leadership; meta-analysis; social exchange theory; cultural factors; incremental validity.
Introduction

Servant leadership refers to a leadership style in which leaders prioritize the fulfilment of their followers’ needs (Greenleaf, 1970; Liden et al., 2008). Over the years, servant leadership has received increasing research attention since Liden et al. (2008) developed a multidimensional measure (see reviews by Parris & Peachey, 2013). The core idea underlying servant leadership is that servant leaders behave in moral or virtuous ways to fully develop their followers’ potential and put their followers’ interests ahead of their own (Greenleaf, 1970; Liden et al., 2008; van Dierendonck, 2011).

Scholars have paid increasing attention to discussing how servant leaders motivate employees to improve their work attitudes and performance (e.g., Hsiao et al., 2015; Ling et al., 2016; Testa & Sipe, 2012). For example, empirical research on servant leadership has primarily focused on examining its consequences, including individual outcomes such as employees’ job engagement (De Clercq et al., 2014), trust in leader (Chan & Mak, 2014), service performance and organizational citizenship behavior (OCB) (Liden et al., 2014; van Dierendonck, 2011), as well as group-level outcomes such as service climate (Chen et al., 2015), group service performance and group OCB (Hu & Liden, 2011).

Despite the increasing number of servant leadership studies, a critical omission in the literature is that limited studies to date have attempted to systematically summarize the growing body of empirical research on servant leadership. Theoretically, although servant leadership has attracted considerable interest from quantitative scholars, there have been few narrative reviews of servant leadership (e.g., Parris & Peachey, 2013; van Dierendonck, 2011), which cannot offer sufficient retrospective analyses of servant leadership research. A critical meta-analytic study performed by Hoch et al. (2018) compared three emerging forms of positive leadership (i.e., authentic leadership, ethical leadership, and servant leadership) with transformational leadership in terms of their associations with relevant organizational
outcomes. Due to the relatively small number of studies the authors used to make their estimates, in their review, the authors called for more studies conducting meta-analyses concentrated on servant leadership to make inferences based on larger populations. Thus, there is a need for a more focused and systematic summary of the existing empirical research on servant leadership. To address this gap, in this paper, we apply social exchange theory (Blau, 1964) and conduct a meta-analytic review and provide strong evidence that demonstrates the quantified effect sizes of servant leadership on relevant outcomes. Practically, understanding the effectiveness of servant leaders may confer considerable benefits to companies by providing direction for their future training and selection approaches. Therefore, by using a meta-analytic approach, our research aims to provide a systematic and holistic review that summarizes the effectiveness of servant leadership with regard to three key consequences: job-related outcomes, leader-related outcomes, and group-related outcomes.

Moreover, although the majority of the servant leadership research has been based on Western contexts (see the review by Liden et al., 2008; Parris & Peachey, 2013), an increasing number of studies are interested in exploring servant leadership in Asian contexts (Hale & Fields, 2007; Han et al., 2010; Ling et al., 2016; Miao et al., 2014). Some studies have suggested that servant leadership is perceived to be culturally universal (see the review by Parris & Peachey, 2013), while others have illustrated the cultural impacts of servant leadership and have suggested that servant leadership may be executed differently in a collectivistic and higher power distance cultural context (Pekerti & Sendjaya, 2010; Sun & Wang, 2009; Trompenaars & Voerman, 2009). Therefore, scholars have called for more research to verify cultural features in studies on servant leadership (e.g., Han et al., 2010; Sun & Wang, 2009). To fill this gap, the current study offers a cultural framework by testing the moderating effects of four critical cultural dimensions—traditionality, masculinity,
individualism, and power distance. We thus provide strong empirical evidence on the cultural impacts of servant leadership to help resolve the inconsistency within the literature.

In sum, our meta-analysis offers four contributions to the servant leadership research. First, although previous studies have revealed many positive effects of servant leadership, the magnitudes and consistency of these effects across studies remain open questions. This study builds on Hoch et al.’s (2018) meta-analysis and systematically examines the previous research and conducts a comprehensive examination of the consequences of servant leadership. Second, this study compares the meta-analytical magnitudes of the relationships between servant leadership and its outcomes and advances our understanding of the predictive strength of servant leadership in terms of both attitude-based outcomes and performance-based outcomes. We also investigate the individual-level and group-level outcomes of servant leadership and emphasize the need to examine the multilevel effects of servant leadership from both the top-down and bottom-up directions. Third, we provide rigorous analyses and demonstrate the incremental validity of servant leadership and its explanatory power on job performance and OCB through the psychological mechanism of leader-member exchange (LMX) compared with transformational leadership. By doing so, we show that servant leadership is a distinct construct compared to other correlated leadership styles. Finally, this research introduces a cultural perspective to interpret the effectiveness of servant leadership. Existing reviews or meta-analyses predominately focus on investigating how servant leaders impact employee or group outcomes in general. Nevertheless, it has been argued that values and views reflecting social norms determine followers’ responses to leadership (Hu & Judge, 2017). In a narrative review, van Dierendonck (2011) suggested that an examination of the cross-cultural validity of servant leadership is needed. In light of these studies, we attempt to identify the cultural aspects of the servant leadership literature by empirically testing how cultural dimensions moderate the
impacts of servant leadership. Thus, the current study expands our knowledge of the servant leadership model across cultures and highlights possible cultural boundaries for the impacts of servant leadership.

Hypothesis development

Servant leadership includes seven dimensions: encouraging emotional healing—showing sensitivity to followers’ personal concerns; creating value for the group—displaying a conscious, genuine concern for helping the group; communicating conceptual skills—possessing knowledge about the organization and its goals and supporting followers; empowering followers—encouraging and supporting followers in identifying and solving problems; helping followers grow and succeed—demonstrating genuine concern for followers’ career growth and development; putting followers first—prioritizing the satisfaction of followers’ work needs; and behaving ethically—interacting openly, fairly, and honestly with others (Liden et al., 2008). Studies have empirically supported the distinctiveness of the construct of servant leadership from several other relevant concepts, including transformational leadership, authentic leadership, ethical leadership, paternalistic leadership and LMX (Ehrhart, 2004; Hale Öner, 2012; Hoch et al., 2018; Liden et al., 2008).

Based on previous empirical studies (e.g., Chan & Mak, 2014; Han et al., 2010; Hsiao et al., 2015; Ling et al., 2016) and reviews of servant leadership (Parris & Peachey, 2013; van Dierendonck, 2011), this paper begins with an investigation of the consequences of servant leadership according to three main categories of consequences: job-related outcomes, leader-related outcomes, and group-related outcomes. Second, this paper introduces a cultural perspective and proposes that servant leadership are not equally effective across different cultures (Smith et al., 2004; van Dierendonck, 2011). By reviewing the extant literature investigating cultural effects on the efficacy of servant leadership (e.g., Pekerti & Sendjaya,
2010; Trompenaars & Voerman, 2009), we examine several cultural moderators, including masculinity, individualism, power distance and traditionality, that are expected to influence the overall predictability of the effectiveness of servant leadership on proposed outcomes at different levels. Finally, we investigate the incremental validity of servant leadership by examining whether it accounts for significant variance in job performance and OCB through the psychological mechanism of LMX beyond the effects of transformational leadership.

**Servant leadership and job-related outcomes**

**Attitudinal and intentional outcomes.** A widely recognized approach to investigating servant leadership in the management literature is examining the relationships between servant leadership and employees’ work attitudes, such as work motivation and attachment to an organization (Chen et al., 2013; Donia et al., 2016; Hu & Liden, 2011). The effectiveness of servant leadership has been explained from a social exchange perspective, which proposes that the norm of reciprocity motivates an employee to return favors in social relationships (Blau, 1964). Instead of being self-interested or purely outcome-oriented, servant leaders help followers meet their needs, desires, and interests and build interpersonal relationships with their followers (Bedi et al., 2016; Hu & Liden, 2011). When these needs and interests are fulfilled, employees are likely to perceive leaders as supportive and therefore remain highly motivated. For example, servant leadership has been found to be positively associated with employees’ sense of empowerment (Van Dierendonck et al., 2014). Similarly, servant leadership can drive restaurant workers’ engagement (Carter & Baghurst, 2014; De Clercq et al., 2014; Sousa & van Dierendonck, 2015). In the context of private service companies, servant leadership has also been revealed to increase employees’ level of intrinsic motivation (Chen et al., 2013). Based on the existing results in the literature, we suggest several attitudinal variables as important outcomes of servant leadership, including *psychological empowerment, engagement,* and *intrinsic motivation.*
Hypothesis 1a: Servant leadership is positively related to individual-level psychological empowerment, engagement, and intrinsic motivation.

In addition, on the basis of the reciprocal attitudes that servant leadership can inspire according to social exchange theory, we expect servant leaders to lead employees to reciprocate in the form of an increased level of attachment to the organization, including trust, organizational commitment and organizational identification, and to reduce employees’ turnover intention. For instance, early studies proposed that servant leadership can facilitate efficient organizational functioning by sustaining high employee trust (Graham, 1991; Greenleaf, 1970). This proposition has received strong empirical support demonstrating a positive relationship between servant leadership and employee trust towards an organization (Joseph & Winston, 2005; Sendjaya & Pekerti, 2010). Further, scholars have suggested that servant leaders who exhibit genuine consideration for their employees can enhance employees’ involvement and cohesiveness in the organizational process. In such situations, servant leaders can promote employees’ acceptance of a company’s values and norms and therefore increase their organizational commitment (Van Dierendonck et al. 2014). Relatedly, servant leaders can also reinforce the salient value of serving others, which portrays a positive image of the organization. Thus, servant leaders can actively prime a collective self-concept among employees and form high levels of social identification with an organization (Lord & Brown, 2004; Zhang et al., 2012). For example, Zhang et al. (2012) found a positive relationship between servant leadership and organizational identification. Finally, when employees are highly attached to an organization, such a strong relational bond can make the employees less likely to consider quitting (Jaramillo et al., 2009).

Hypothesis 1b: Servant leadership is positively related to individual-level follower trust, organizational commitment and organizational identification and is negatively related to turnover intention.
Individual behavioral outcomes. In addition to the effects of servant leadership on motivation and attachment, we consider individual behavioral outcomes as another important dimension that servant leadership drives based on social exchange theory. We summarize these behavioral outcomes in two general categories: in-role behaviors, including job performance and service quality, and discretionary behaviors, including creativity and OCBs (Ehrhart, 2004; Jaramillo et al., 2009; Liden et al., 2014; Neubert et al., 2008; Walumbwa et al., 2010; Yoshida et al., 2014).

We contend that servant leadership can foster employees’ job performance. From a social exchange perspective, when servant leaders provide employees with resources, guidance, and emotional support, the receipt of such positive treatment from leaders is likely to engender strong feelings of obligation for the followers to achieve better job performance in return (Liden et al., 2014). Liden et al. (2008) suggested that servant leaders who create a pervasive social context characterized by high levels of trust and mutual support can foster positive exchanges with employees, which motivates the employees to respond with high levels of job performance. In particular, the literature demonstrates that servant leadership not only enhances employees’ general job performance but also increases their service quality towards customers in service companies. For example, Chen et al. (2015) found that servant leaders who offered considerable assistance to employees during their working and learning process enhanced the employees’ ability to deliver high-quality service to customers in hair salons.

Hypothesis 2a: Servant leadership is positively related to individual-level in-role performance and service quality.

We also expect that positive social exchanges with employees initiated by servant leaders can create a supportive social context in which employees are highly encouraged to reciprocate with prosocial behaviors that support the positive environment, such as
interpersonally directed OCB (OCBI) and organizationally directed OCB (OCBO) (Walumbwa et al., 2010). In addition, servant leaders can encourage employees to express diverse ideas and adopt innovative ways to perform their tasks (Greenleaf, 1970; Liden et al., 2008). In this regard, servant leaders can provide employees with a psychologically safe environment in which the employees are willing to take risks and propose and implement creative ideas in their work (Liden et al., 2014; Neubert et al., 2008). In a similar vein, Yoshida et al. (2014) found that servant leaders can encourage employees to develop a strong relational identification with the leader by providing a strong sense of psychological safety so that the employees are more willing to take risks and invest in new ideas.

**Hypothesis 2b:** Servant leadership is positively related to individual-level OCBI, OCBO and creativity.

**Well-being outcomes.** Leadership has traditionally been viewed as an essential element influencing employee well-being in the workplace (e.g., Ilies et al., 2005; Landeweerd & Boumans, 1994; Seltzer & Numerof, 1988; Tepper, 2000). Scholars have long argued that negative leadership styles (e.g., destructive leadership, abusive leadership) are likely to be psychologically distressing to employees and may therefore cause employees to feel exhausted (see a review by Schyns & Schilling, 2013). By contrast, supportive leadership styles (e.g., servant leadership) provide employees with sufficient support and resources to cope with job demands and task requirements (van Dierendonck, 2011). Indeed, extant research has demonstrated the important impact of servant leadership on well-being outcomes. Rivkin et al. (2014) showed that servant leadership is negatively related to emotional exhaustion, and Babakus et al. (2010) found that servant leadership increases employees’ capacity to cope with job demands. Therefore, we include perceived job demands and emotional exhaustion as well-being outcomes of servant leadership, thus supporting the
notion that servant leaders can benefit employees’ well-being (Min, 2014; Rivkin et al., 2014; Tang et al., 2015).

**Hypothesis 3a: Servant leadership is negatively related to individual-level perceived job demands and emotional exhaustion.**

According to Liden et al.’s (2008) original model of servant leadership, displaying genuine concern and providing support to employees is a critical feature of servant leaders. That is, when servant leaders are sensitive to the needs of their employees, they effectively provide genuine support to them, and such support is helpful in increasing employees’ well-being. Prior research has considered perceived organizational support as organizations expressing care about their employees’ well-being (Sousa-Poza & Sousa-Poza, 2000) and has suggested that feeling supported at work and satisfied with one’s job are two important aspects of employee well-being. Of relevance to our model, the positive relationship between servant leadership and employees’ perceived work support has also been supported by empirical research (e.g., Zhou & Miao, 2014). Servant leaders prioritize satisfying their followers’ needs (Liden et al., 2008), and followers are therefore likely to feel supported and are subsequently more satisfied with their jobs. The positive relationship between servant leadership and job satisfaction is also well supported in the existing literature (Hebert, 2003; Schneider & George, 2011; Thompson, 2002).

**Hypothesis 3b: Servant leadership is positively related to individual-level perceived work support and job satisfaction.**

**Servant leadership and leader-related outcomes**

As noted earlier, servant leadership is effective at producing high-quality exchanges between a leader and employees in the workplace. According to Ng et al. (2008), social exchange theory also serves as a fundamental relationship-based approach to understanding the relational dynamics between servant leaders and employees. Previous research has
adopted this social exchange perception (Blau, 1964) to explain the effects of servant leadership on leader-related outcomes, including LMX and leader effectiveness. One distinct feature of servant leadership in organizations is that leaders appear friendly and approachable and initiate high LMX when interacting with employees (Henderson et al., 2009; Ling et al., 2016). Other studies have found that followers’ perceptions of leaders possessing the attributes of servant-oriented behaviors elicit favorable perceptions of leadership, which is an important antecedent of followers’ perceptions of the effectiveness of servant leadership (Greenleaf et al., 1996; Han & Kim, 2012).

Hypothesis 4: Servant leadership is positively related to LMX and leadership effectiveness.

Servant leadership and group-related outcomes

In addition to the individual-level effects, researchers have found that servant leaders can effectively create a service climate in groups which can benefit group-level service performance (Liden et al., 2014; Walumbwa et al., 2010). Service climate refers to the shared perceptions of and the meaning attached to the policies, practices, and procedures employees experience and the customer service behaviors they observe being rewarded and that are supported and expected (Schneider & Reichers, 1983; Schneider & George, 2011). Leaders are perceived as the most salient representatives of management actions, policies, and procedures (Kozlowski & Doherty, 1989). Servant leaders who establish people-oriented and ethical actions are often viewed as role models by employees (Greenleaf, 1970). When servant leaders set performance goals (e.g., service excellence), communicate performance standards, and reinforce good performance by providing genuine feedback, employees are likely to feel empowered and inspired to engage in appropriate behaviors and achieve these goals; this leads to higher levels of service climate. Research has indeed shown that servant leadership is positively related to service climate at the group level (Walumbwa et al., 2010).
In addition, servant leadership has been found to significantly increase the quality of service performance (Chen et al., 2015; Liden et al., 2014; Schaubroeck et al., 2011).

_Hypothesis 5: Servant leadership is positively related to group-level service climate and service performance._

**Moderating effects of the cultural dimensions of the effectiveness of servant leadership**

As the business world becomes increasingly globalized, the phenomenon of culture has emerged as a contentious issue in both contemporary leadership (Avolio et al., 2009; Dickson et al., 2003; Hofstede, 1980; Hofstede & Bond, 1988; House et al., 2004) and general management studies (Chan, 2002; Lim & Firkola, 2000; Wang et al., In press). For example, a very recent review performed by Koo and Park (2018) emphasized that the unique cultures and traditional philosophies in Asia make certain leadership styles more or less salient in this region. This line of research suggests that investigating the impacts of cultural factors in the Asian context is important to provide a comprehensive understanding of the leadership process in organizations around the world (Atwater et al., 2009; Den Hartog et al., 1999; Eylon & Au, 1999).

Indeed, there has been an increased level of research on the impacts of cultural factors on the relationship between servant leadership and its consequences (e.g., Haven-Tang & Jones, 2012; Testa, 2009). For example, Hale and Fields (2007) found that workers serving in Christian seminaries in Ghana reported significantly lower levels of servant leadership than those in North America. Similarly, a comparative study of servant leadership in Australia and Indonesia revealed that societal culture, including traditionality, masculinity and power distance, is a significant factor in explaining variations in employees’ perceptions of the effectiveness of servant leadership (Pekerti & Sendjaya, 2010). In the following paragraph, based on the existing research, we develop hypotheses regarding the role of cultural values.
(i.e., Chinese traditionality, masculinity, individualism, and power distance) in moderating
the relationships between servant leadership and its proposed consequences.

First, we expect traditionality to buffer the positive relationships between servant
leadership and employee and group outcomes. Traditionality refers to the values of
submission to authority, filial piety, ancestor worship, fatalism, and male dominance (Yang et
al., 1989). Traditional employees tend to expect a powerful leader to behave in commanding
and controlling ways, and they are therefore socialized to show obedience to their leaders
(Hui et al. 2004). Research has also shown that traditionalists are less sensitive to reciprocity
from and emotional bonds with their leaders (Farh et al., 2007; Hui et al., 2004). In this
regard, servant leaders who build strong interpersonal relationships with their employees
(Newman et al., 2017) are less likely to foster traditional employees to reciprocate the
positive exchanges with better work attitudes and performance. In contrast, employees who
are less traditional view such leaders as approachable (Zhang et al., 2014) and expect their
leaders to have intimate interpersonal relationships with them (Lian et al., 2012). Thus, we
expect that less traditional employees tend to be more effective and respond more positively
to servant leaders.

Hypothesis 6: Traditionality moderates the relationships between servant leadership and
its proposed individual-level and group-level outcomes such that the positive impacts of
servant leadership are stronger when employees have lower levels of traditionality.

Similarly, we expect that servant leadership has larger positive impacts on employee
and group outcomes when employees have lower levels of power distance orientation. Power
distance orientation refers to the extent to which an individual accepts the unequal
distribution of power among people at different levels in society (Hofstede, 1980). In
organizations, employees with high power distance legitimize the asymmetric power
distribution between leaders and followers, while employees with low power distance identify with a relatively equal distribution of power between these two parties.

Employees with higher power distance generally prefer their leaders to give them direct orders and solutions (Kirkman et al., 2009), and they are therefore less motivated to participate and be involved in decision-making processes. However, servant leaders provide considerable job autonomy and self-determination opportunities to employees for their personal growth. Thus, servant leadership tends to be viewed as less “empowering” by high power distance employees since without direct orders, these employees could feel confused about how their job tasks. However, when employees have lower power distance, they are empowered by the opportunities to provide input to decision-making processes, and they are less likely to accept direct orders without clarification from their leaders. We therefore suggest that employees with lower power distance are more likely to respond favorably to servant leadership with increased levels of positive work attitudes and behaviors.

Hypothesis 7: Power distance moderates the relationships between servant leadership and its proposed individual-level and group-level outcomes such that the positive impacts of servant leadership are stronger when employees have lower levels of power distance.

Individualism refers to a preference for a loosely knit social framework and for individuals taking care of themselves (Hofstede, 1984). We suggest that the positive impacts of servant leadership on employee outcomes are strengthened by high levels of employee individualism, and this is the case because individualists consider self-interests more than group interests, especially when these two types of interests conflict. Servant leadership promotes the personal growth of employees and emphasizes the satisfaction of employees’ personal needs (Van Dierendonck 2011). Such behaviors are more likely to be favored by individualism-oriented employees since these behaviors provide more opportunities for
personal development. In this situation, individualism-oriented employees are more likely to feel satisfied and remain engaged in their jobs. In contrast, employees with low individualism are less self-focused and consider group benefits more than individual benefits. In this sense, these employees may care less about their personal interests and may be less reactive to individualized support from the servant leaders compared to their counterparts.

_Hypothesis 8: Individualism positively moderates the relationships between servant leadership and its proposed individual-level and group-level outcomes such that the positive impacts of servant leadership are stronger when employees have higher levels of power distance._

Finally, masculinity refers to a preference for achievement, heroism, assertiveness, and material success (Hofstede 1984). Masculinity reflects values associated with self-assertiveness, task orientation, achievement and advancement compared to showing empathy and warmth or caring for the feelings of others (Elenkov & Manev, 2005). We suggest that servant leadership has stronger positive impacts on employees who have low levels of masculinity. Research shows that masculine people prefer assertive and task-oriented interpersonal relationships, while their counterparts prefer stronger personal relationships and intimate interpersonal communications (Korabik, 1990). Servant leadership, which focuses on listening to employees’ concerns and caring for their personal well-being, has been perceived as a type of feminine-oriented leadership style (Reynolds, 2011). In this regard, we suggest that servant leadership is preferred by employees with lower masculinity because these employees tend to appreciate and react more positively to intimate interpersonal relationships with leaders. In contrast, highly masculine employees give primacy to task-related and assertive information, and they are less socially sensitive and less genuinely interested in relationships with others (Spence et al., 1975). In this regard, we suggest that highly masculine employees are less likely to sense feminine behavioral cues from servant
leaders, and their work attitudes and behaviors are therefore less likely to be improved by this leadership style.

**Hypothesis 9:** Masculinity moderates the relationships between servant leadership and its proposed individual-level and group-level proposed outcomes such that the positive impacts of servant leadership are stronger when employees have lower levels of masculinity.

**Incremental validity**

Antonakis (2017) argued that when modeling one leadership style in predicting an outcome, it is important to control for competing correlated leadership styles. It is necessary to consider how servant leadership explains its variance in important outcomes relative to other related types of leadership, such as transformational leadership (Barbuto Jr & Wheeler, 2006; Stone et al., 2004; van Dierendonck, 2011). Transformational leadership refers to a leadership style in which leaders pay attention to the development of followers through idealized influence, inspirational motivation, intellectual stimulation, and individualized consideration (Bass & Stogdill, 1990). Servant leadership has been argued to be theoretically distinct from transformational leadership in several important ways.

First, servant leadership involves key components of morality, humility, and authenticity, yet transformational leadership by definition does not include these components (Walumbwa et al., 2010). Second, servant leaders are not necessarily charismatic, while transformational leaders exhibit a powerful and inspirational personal image in front of their followers (Bass & Stogdill, 1990). Third, transformational leaders develop followers for the sake of the organization (Avolio, 1999), whereas servant leaders are more concerned with followers’ personal growth and well-being (Liden et al. 2008). Emerging empirical evidence supports the distinction between transformational leadership and servant leadership (Parolini et al., 2009; Van Dierendonck et al., 2014). Accordingly, to investigate the incremental validity of
servant leadership, we focus on two critical performance outcomes, job performance and OCB. We select job performance and OCB because other ratings of these two outcome variables in the servant leadership literature are adequate, which reduces the potential for common method bias (Podsakoff et al., 2003).

We compare the incremental validity between servant leadership and transformational leadership by demonstrating their variance in affecting job performance and OCB through a key psychological mechanism, LMX. This investigation allows us to examine how the psychological process of servant leadership affects outcomes by considering the effects of transformational leadership. LMX has been highlighted as a main psychological mechanism in the relationship between leadership behaviors and their outcomes (Ng & Feldman, 2015). Similarly, LMX has been theorized as a key mediating mechanism in the servant leadership literature. The core argument is that servant leaders influence their followers to enhance their followers’ job performance and OCB by developing reciprocal relationships with them (Ilies et al., 2007; Joseph & Winston, 2005; Liden et al., 2008; Newman et al., 2017). We argue that servant leadership accounts for incremental variances in its outcomes via LMX beyond the effects of transformational leadership because in developing high-quality exchange relationships with followers (LMX). It is the case because that servant leaders prioritize followers’ needs and care for their well-being mainly to promote employees’ self-development (Van Dierendonck et al. 2014). In contrast, transformational leaders focus more on enhancing followers’ self-worth, empowering followers to internalize leaders’ visions and values, and even encouraging followers to sacrifice their own interests to achieve organizational goals (Wang et al., 2005). According to social exchange theory (Blau, 1964), employees reciprocate in the form of improved job performance and OCB more to servant leaders who care more about them compared with transformational leaders who prioritize the organization’s objectives. Thus, we hypothesize the following:
Hypothesis 10: LMX mediates the positive relationship between servant leadership and employees’ job performance (H10a) and OCB (H10b) when controlling for transformational leadership.

Method

Literature Search

We searched the literature on servant leadership in seven databases, including Web of Science Social Sciences Citation Index (SSCI), EBSCO, ABI/INFORM, ERIC, PsycINFO, Google Scholar and Scopus. Following the practices of previous meta-analyses (e.g. Zhang & Bednall, 2016), we searched the titles, key words and abstracts for references to servant leadership or authenticity of leaders. In addition, a manual search of reviews of servant leadership was performed to supplement the data (Alvesson & Sveningsson, 2013; Banks et al., 2016; Gardner et al., 2011).

We also searched conference papers and dissertations using PsycINFO/Dissertation, Scopus, PsycINFO and Web of Science (SSCI) to avoid publication bias (Rothstein & Hopewell, 2009). Moreover, we posted information on the listservs of the Human Resources and Organizational Behavior Divisions at the Academy of Management Conference to collect working papers about servant leadership.

Inclusion Criteria

We used four criteria for inclusion of empirical studies. First, servant leadership and similar relevant constructs must be the focal variable of these empirical studies. Second, the empirical research must include a measure of servant leadership. Third, at least one of the antecedents or moderators of servant leadership is included in the study. Fourth, the research reported the zero-order correlations. In addition to studies about servant leadership, we
included studies of MASEM. In total, we collected 125 studies, including 34,698 participants, for final analysis.

Sample Information

Among the studies included in the present meta-analysis, most of the studies were published. The studies came mainly from Asia and the United States, with 42.5% of studies coming from the United States and 25% from China. The sample included both male and female authors. Specifically, male authors accounted for over half of the sample (57.5%), while female authors accounted for less than half (42.5%). The average age of the authors ranged from 30 to 60 years old, with most authors aged between 30 and 50; specifically, the average age range of 31 to 40 accounted for 40% of the sample, the range between 41 and 50 accounted for 45%, while those under 30 accounted for 10% and those over 50 accounted for 5%. Detailed information is provided in Appendix A.

Variable Classification

Two authors of this study independently reviewed the variables and categorized the consequences of servant leadership into three general categories, namely subordinate-related consequences, leader-related consequences, and team-related consequences. Subordinate-related consequences consisted of attitudinal consequences, behavioral consequences, and the subordinate’s well-being; leader-related consequences included leader effectiveness; and team-related consequences included the service climate and group service performance.

Information Extraction

The observed correlations, sample sizes and alpha coefficient reliability estimates reported in the original articles were coded. In addition, we transformed the observed correlations into corrected correlations (Hunter & Schmidt, 2004). The two authors of the
current study coded all the papers independently and reviewed disagreements. Finally, a high level of agreement was achieved (Cohen’s kappa = .92).

Analysis

We applied random-effects meta-analysis to test Hypotheses 1 to 6 (Borenstein et al., 2011; Hunter & Schmidt, 2004). Regarding our sample studies, because the data were collected from individual research contexts, the studies are unlikely to be homogenous. Random-effects meta-analysis should be applied if the effect size varies among studies (Hedges & Vevea, 1998). Based on correlation values and sample sizes, a random-effects model incorporates both between and within study variance. The aggregated effect sizes based on random-effects analysis is the common effect of primary studies.

Following Borenstein et al. (2011), we used meta-regression to test the moderating effects of four cultural dimensions. Meta-regression is a mixed model of meta-analysis, which is used to estimate the effect of study characteristics on the effect sizes of primary studies. The study-level characteristics, effect sizes and sample sizes should to be included for meta-regression. The significance test for the effect of study characteristics on effect sizes indicates whether the study characteristics can moderate the relationship between two correlates. Meta-regression is conducted based on a linear model in which each z-transformed effect size can be estimated by the theory driven moderators. The generalized least squares (GLS) estimator is applied to estimate the moderation effect. We measured the four cultural dimensions using data reported in the World Values Survey on the website maintained by Geert Hofstede (http://geert-hofstede.com/china.html) to increase the accuracy of the measures of the cultural dimensions by comparing the conventional approach of cross-cultural meta-analysis in operationalizing cultural orientation by using location as a proxy (Zhang & Liao, 2015). Specifically, in our analysis, because the meta moderation test is a
mixed model of meta-regression, it incorporates the cultural characteristics to examine
between-study heterogeneity (Cheung, 2015).

To test Hypothesis 10 about the incremental validity of servant leadership and the
mediating effect of LMX, we applied Bergh et al.’s (2016) meta-analytic structural equation
modeling (MASEM). MASEM is a combination of meta-analysis and structural equation
modeling to estimate a model that contains multiple independent variables, mediators and
dependent variables. The correlation matrix among variables is used as data input for
MASEM. By fitting the correlation matrix with SEM, the path coefficients can be estimated
(Landis, 2013). MASEM offers two advantages. First, MASEM estimates multivariate
relationships more accurately in terms of examining incremental validity (Clarke, 2005;
Viswesvaran & Ones, 1995). Specifically, we controlled for the effect of transformational
leadership, which is considered an important confounding variable of servant leadership
(Hoch et al. 2018), and therefore including transformational leadership validates the
incremental validity of servant leadership. Ng and Feldman (2015, p. 953) have also used this
method and suggested that the incremental validity can be established when MASEM
analysis shows that a focal variable is significantly related to a criterion variable after
controlling for confounding variables. Second, in addition to controlling the effects of
transformational leadership, MASEM is capable of testing the mediation effect of LMX
linking servant leadership and employees’ job performance and OCB.

**Results**

**Main effects of servant leadership**

In order to test Hypothesis 1, the relationships between servant leadership and its attitudinal
outcomes were examined. As illustrated in Table 1, consistent with our prediction, servant
leadership was positively related to psychological empowerment ($\bar{r} = 0.65$), engagement ($\bar{r}$=
0.21), and intrinsic motivation ($\bar{r} = 0.27$). In addition, for organizational attachment outcomes, servant leadership was positively associated with trust ($\bar{r} = 0.77$), organizational identification ($\bar{r} = 0.61$), and organizational commitment ($\bar{r} = 0.30$). All the 95% confidence intervals excluded zero. Therefore, Hypothesis 1a and Hypothesis 1b were supported.

Hypothesis 2 suggested that servant leadership is associated with individual-level behavioral outcomes. The results in Table 1 indicate that servant leadership was positively related to in-role performance ($\bar{r} = 0.19$), creativity ($\bar{r} = 0.37$), and service quality ($\bar{r} = 0.16$). Except for creativity, all the 95% confidence intervals excluded zero. For OCB, servant leadership was positively associated with OCBI ($\bar{r} = 0.54$) and OCBO ($\bar{r} = 0.64$), which was illustrated by the 95% confidence intervals excluding zero. Consequently, Hypotheses 2a and 2b were supported.

Hypothesis 3 proposed that servant leadership is related to subordinates' well-being. For well-being outcomes, the results in Table 1 demonstrate that servant leadership was negatively associated with perceived job demand ($\bar{r} = -0.25$) and emotional exhaustion ($\bar{r} = -0.23$). In addition, for resource-related consequences, servant leadership was positively related to both perceived work support ($\bar{r} = 0.50$) and job satisfaction ($\bar{r} = 0.61$). All the 95% confidence intervals excluded zero. Thus, both Hypotheses 3a and 3b were supported.

To test Hypothesis 4, the relationships between servant leadership and leader-related outcomes were examined. As expected, the results in Table 1 reveal that servant leadership was positively associated with both LMX ($\bar{r} = 0.70$) and leader effectiveness ($\bar{r} = 0.76$). The 95% confidence intervals excluded 0. Thus, Hypotheses 4a and 4b received support.

In terms of Hypothesis 5, the relationships between servant leadership and team-related outcomes were examined. As shown in Table 1, the results indicate that servant leadership was positively related to both group service climate ($\bar{r} = 0.65$) and group service performance
The 95% confidence intervals excluded 0. Therefore, Hypotheses 5a and 5b were supported. In conclusion, we found support for all five hypotheses.

In addition, we applied a one-sample removed analysis to evaluate the robustness of our analysis in terms of detecting the impact of an individual study (Borenstein et al., 2011). The results of one-sample removed analysis are displayed in Appendix B and show that there is no substantial difference in results after removing one sample.

---INSERT TABLE 1 ABOUT HERE---

**Moderating effects**

Hypothesis 6 proposed that cultural characteristics moderate the relationship between servant leadership and its outcomes. Hofstede’s country score was used to identify the proposed cultural moderators. Hofstede (1980) developed a multi-country survey with a sample of 40 countries. The questionnaire items were grouped into four dimensions, including power distance, uncertainty avoidance, individualism versus collectivism, and masculinity versus femininity, and each dimension was measured by an index to evaluate a country’s culture characteristics. Based on the existing literature on servant leadership, we included these four dimensions to test Hypothesis 6. Meta-regression was adopted to examine all the moderating effects. As Table 2 indicates, traditionality positively moderated the effects of servant leadership on job satisfaction ($b = 0.07$, $p < .05$), OCBI ($b = 0.10$, $p < .05$), OCBO ($b = 0.21$, $p < .01$), psychological empowerment ($b = 0.53$, $p < .01$), service quality ($b = 0.12$, $p < .01$), and trust ($b = 0.63$, $p < .01$), whereas it negatively moderated the effects of servant leadership on emotional exhaustion ($b = -1.06$, $p < .01$), intrinsic motivation ($b = -0.94$, $p < .01$), leader effectiveness ($b = -0.83$, $p < .01$), LMX ($b = -0.12$, $p < .01$), and service climate ($b = -0.53$, $p < .01$).
The results in Table 2 show that masculinity negatively moderated the relationships between servant leadership and emotional exhaustion (b = -0.01, p<.05), LMX (b = -0.07, p<.05), psychological empowerment (b = -0.02, p<.05), service climate (b = -0.29, p<.01), service quality (b = -0.07, p<.01), and trust (b = -0.01, p<.01). In contrast, masculinity positively moderated the relationships between servant leadership and intrinsic motivation (b = 0.02, p<.01) and leader effectiveness (b = 0.04, p<.01).

For individualism, the results in Table 2 reveal that individualism negatively moderated relationships between servant leadership and emotional exhaustion (b = -0.01, p<.01), job satisfaction (b = -0.01, p<.01), psychological empowerment (b = -0.06, p<.01), and trust (b = -0.01, p<.01), whereas it positively moderated the effects of servant leadership on intrinsic motivation (b = 0.05, p<.05) and service climate (b = 0.01, p<.01).

For power distance, the results in Table 2 show that power distance negatively moderated the relationships between servant leadership and psychological empowerment (b = 0.40, p<.05), whereas it positively moderated the effect of servant leadership on emotional exhaustion (b = 0.02, p<.01), intrinsic motivation (b = 0.01, p<.01) and OCBO (b = 0.01, p<.01). Thus, Hypotheses 6-9 received partial support. These results will be further considered in the discussion section.

---INSERT TABLE 2 ABOUT HERE---

Incremental validity

Regarding the incremental validity test and mediation test, as shown in Figure 2, the effect of servant leadership on LMX was positive and significant (b = .35, p<.001) after controlling for the effect of transformational leadership (b = .50, p<.001). These results provide support for the incremental validity of servant leadership. In addition, the results of
the mediation analysis based on a 95% Monte Carlo Bootstrap suggest that the indirect effect
of servant leadership via LMX on job performance was significant \( (b = .06, p < .001, CI [0.03, 0.08]) \) but non-significant for OCB \( (b = .00, p > .05, CI [-0.02, 0.02]) \). Thus, Hypothesis 10 is partially supported.

---INSERT FIGURE 2 ABOUT HERE---

**Discussion**

There has been increasing interests in examining servant leadership during the past decade. However, quantitative summaries of the existing empirical studies in this area remain limited, with an exception of Hoch et al.’s (2018) study. By synthesizing the empirical results on servant leadership over the last decade, our paper extends Hoch et al.’s work by first providing a more comprehensive summary of the magnitude of the effects of servant leadership on a wide range of outcomes. Second, we test the incremental validity of the effectiveness of servant leadership through a comparison with transformational leadership via one key mechanism: LMX. Third, our research offers insights into the boundary conditions of the servant leadership–outcomes relationship from a cultural perspective.

**Results summary**

With regard to the overall magnitude of the relationships between servant leadership and its outcomes, our results suggest that servant leadership strongly benefits employee work attitudes and behaviors and group climate and performance (e.g., Chen et al., 2013; Liden et al., 2014; Liden et al., 2014; Walumbwa et al., 2010). Based on social exchange theory (Blau, 1964), we offer strong support for the definitive magnitudes of the effects of servant leadership on proposed outcomes, which varied in previous studies. Our study suggests that servant leadership can influence both individual-level consequences and group-level consequences, thus suggesting that this type of leadership is effective across different levels in organizations. Moreover, research shows that servant leadership not only functions at different levels but also
has a top-down cascading impact (i.e., from top-level managers to bottom-level supervisors) on improving employee work performance (Ling et al., 2016). These results underscore the critical role of servant leaders in creating a positive working environment and facilitating high levels of group and individual performance (Hsiao et al., 2015; Ling et al., 2016). Furthermore, our findings show that servant leadership is effective across industries. Specifically, servant leadership not only enhances generalized individual and group performance but also motivates service employees to provide high-quality customer service in service companies (e.g., Chen et al., 2015). In sum, our study provides sufficient support for the beneficial outcomes of servant leadership.

Second, when we compare the different magnitudes of the relationships between servant leadership and its outcomes, the correlations for the behavioral outcomes are smaller than the correlations for the attitudinal outcomes. A possible explanation for this result is that employees’ attitudes mediate the relationships between servant leadership and employee behavioral outcomes (e.g., Ehrhart, 2004; Hu & Liden, 2011; Hui et al., 2007; Schaubroeck et al., 2011). This explanation is in line with the social exchange perspective that when servant leaders respect their employees’ personal growth and well-being, the employees will have a more positive attitude towards their jobs, the leader, and the company. These positive attitudes, in turn, result in better employee work performance.

Third, the findings support that, though only in part, our hypothesized boundary conditions of the cultural dimensions moderate the relationship between servant leadership and its consequences. Our results indicate that although the main effects of servant leadership on outcomes are significant, these effects vary across cultures. For example, our results show that servant leadership has weaker impacts on employees who are high in traditionality and power distance and low in individualism. These results demonstrate that in collectivistic contexts, such as in Asian countries, where people have higher levels of traditionality and
power distance and lower levels of individualism, servant leadership is relatively less
effective in influencing employee outcomes. This result can be explained by the culturally
endorsed implicit leadership theory (CLT; Dorfman et al., 2004). CLT suggests that cultural
background may affect followers’ responses to leadership in many respects, for example, the
types of leader behaviors that are considered socially desirable (Hansbrough et al., 2015).
Indeed, research has found that servant leadership is more likely to be experienced by people
in individualistic contexts (i.e., the West) than by those in collectivistic contexts (i.e., the
East) because servant leaders who are follower-centric and self-sacrificial are compatible
with the leader prototypes embedded in individualism (Hale & Fields, 2007).

Fourth, we found that the positive impacts of servant leadership on employees are
weakened by employees’ masculinity. This finding can be understood as a reflection of the
modern norms in the workplace. Specifically, the dominant focus of organizations has
changed from early classic scientific management (Taylor, 1914), which emphasized massive
production, to the more recent employee-centered approach in which employees’ attitudes
and well-being are recognized by organizations (Van Buren III, 2005; Wood & Jones, 1995).
Therefore, values and beliefs associated with femininity, such as caring, empathy, warmth
and intimacy in the workplace, have been extensively promoted by researchers and
practitioners (Rego & Cunha, 2008). Our results show that servant leadership is more
embraced in a workplace in which employees have lower levels of masculine values. This
phenomenon reflects a rising awareness of the need to build a more democratic and equal
workplace. In sum, our study helps reconcile the inconsistent findings regarding the
effectiveness of servant leadership across different cultures.

We should note, however, that the moderating effects of individualism and power
distance are relatively small, thus indicating that the magnitudes of these two cultural
moderators may be slight and of limited practical significance. Additionally, our results
indicate that Chinese traditionality is more crucial to understanding the cultural boundary of
the relationship between servant leadership and its consequences. This finding also provides
additional insights, as it implies that cultural variables have different strengths when
moderating the effects of servant leadership.

Theoretical Implications

A primary goal of this meta-analysis is to examine the extent to which servant
leadership can explain its variance in proposed outcomes. Overall, our meta-analysis shows
that the outcome variables used in the existing servant leadership studies mainly focus on
general work attitudes and outcomes (Hoch et al., 2018; van Dierendonck, 2011) as well as
some context-related outcomes (e.g., service performance: Chen et al., 2015). However, other
types of outcome variables may need to be further clarified and explored. For instance, from
our examination of the existing evidence, one key aspect of servant leadership – behaving
ethically, and its association with ethics-related outcomes – has received very limited
research attention. Specifically, servant leaders act as role models in terms of demonstrating
ethical values and standards (Burton et al., 2017), which can therefore motivate followers to
imitate these values and engage in more ethical behaviors. Relatedly, although servant
leadership contains multiple dimensions, the existing research we examined predominantly
uses servant leadership as an overall construct. To achieve a deeper understanding of servant
leadership, it is important to identify the most salient dimension of servant leadership in
predicting different types of outcomes. For example, the aspect of encouraging emotional
healing may be particularly relevant to employees’ mental wellbeing (Panaccio et al., 2015),
while the aspect of creating value for the group may be particularly effective in facilitating
positive group climates. Further studies are encouraged to investigate these issues.
Another aim in this study was to understand how cultural moderators could impact servant leadership effectiveness. We found that there are certain contexts in which there may be a greater preference for servant leadership. Specifically, the finding regarding a favored individualistic and less masculine context for servant leadership indicates a need for shifting organizational contexts in Asia from a parental authoritarian style to a more supportive one (Warner, 2014). To the extent that organizations shift towards a more feminine and supportive foundation, servant leadership can maximize its beneficial impacts. Thus, it could be a promising avenue for future research to examine how unique governance styles in organizations, for example an authoritarian or a supportive style, would add to the servant leadership variance.

Third, our findings with respect to comparing the explanatory power of servant leadership and transformational leadership also have important implications for servant leadership scholars. The results of our meta-analysis highlight that servant leadership can explain distinctive variance in proposed outcomes considering the impacts of transformational leadership. Yet, it is also important to consider that leaders may integrate different strategies to exert influence on employees (Arnold et al., 2017; Foti et al., 2012). Supporting this view, our meta-analysis found that both servant leadership and transformational leadership have distinct effects on employee outcomes via LMX compared with each other. It is possible that servant leaders could integrate some transformational leadership tactics as part of their own unique styles. Thus, more research should be conducted to apply a pattern-oriented approach to assess how servant leadership, as a sharing part of certain leadership styles, can impact employees.

Practical implications
This meta-analysis also provides insightful practical implications. Our findings suggest that servant leadership has some incremental effects in fostering both group-level and individual-level outcomes (Chen et al., 2015; Liden et al., 2014; Neubert et al., 2008). This suggests that management efforts to encourage servant leadership should prove fruitful. Relevant organizational policies that include leadership training programs should be designed to encourage managers to be caring, ethical, and nurturing towards their employees. Moreover, organizations can use reward systems and promotion opportunities to train leaders to spontaneously consider their employees’ needs. Beyond training, companies are advised to employ selection and recruitment methods to hire more servant leaders. In summary, with the increasing level of competition suggesting the need for strong leadership that develops employees’ potential, it is important for managers to be selected as servant leaders and to be trained to adopt servant leadership approaches. In this sense, managers can motivate employees to not only increase their performance but also demonstrate ethics, virtue, and morality to the wider community (e.g., customers, stakeholders and society).

Additionally, our results show that, although servant leadership is massively beneficial in organizations, it has varied effect sizes on different outcomes. For example, in terms of behavioral consequences, servant leaders are much more effective in facilitating higher levels of OCBs, compared to in-role performance and creativity. This suggests that, when applying servant leadership, managers should be aware of what followers’ work behaviors they seek to produce. In addition, compared to other attitudinal outcomes, servant leadership has the strongest impact on followers’ trust, indicating that building strong trust relationships with followers is the core reason why followers of servant leaders display more positive attitudes and behaviors. We therefore suggest that servant leaders prioritize nurturing strong interpersonal relationships with followers and caring about their personal development.
Further, several studies that we reviewed argued that servant leadership has a “trickle-down” effect from senior managers to frontline employees through a social learning process (Liden et al., 2014; Ling et al., 2016). We suggest that organizations not only train front-line employees to be customer service-oriented but also train top managers and middle-level supervisors to be kind and supportive and encourage them to act as positive role models.

Finally, we find that cultural background can influence employees’ responses to servant leadership behaviors. Thus, managers should respect employees’ different cultural backgrounds, especially in multinational corporations (MNCs), and should consider that cross-cultural differences among employees have critical implications for achieving success based on different management approaches.

**Limitations and future research directions**

This study has several limitations that deserve discussion. First, limited by data availability, most of the analyzed studies were based on cross-sectional data, from which it is difficult to examine the causal relationships between servant leadership and its consequences (Zhang & Bednall, 2016). Although our results have revealed robust relationships between servant leadership and most of the proposed variables in different categories, this study cannot rule out the possibility that followers’ positive attitudes and performance lead to variations in leader behaviors. Therefore, we suggest that future research collect longitudinal data to capture the causality between servant leadership and its proposed consequences. In addition, most of the studies we reviewed were cross-sectional and suffered from common-method bias. Future research should consider using objective data, which could increase our confidence in the effectiveness of servant leadership in relation to both soft criteria and hard performance data.
Second, given that the examination of cultural moderators is rather limited in the existing servant leadership literature (see Hale & Fields, 2007 for an exception), the relatively small number of studies in some of our analyses prohibited us from explaining the moderating effects in a more holistic manner. In particular, the results of the Q statistic for some of the relationships between servant leadership and its consequences, such as $r = .17$ ($p < .001$) for servant leadership on in-role performance, indicate that there is some amount of variance remaining to be explained. More research on the moderating effects of cultural dimensions could facilitate progress in our understanding of the influence of culture on servant leadership effectiveness.

Third, early studies suggested that servant leadership is a leadership phenomenon that not only exists across multiple levels of management but also influences service performance at both the individual and the group levels (Graham, 1991; Greenleaf, 1970). Recent scholars have also exhibited considerable interest in the “multilevel nature” of servant leadership (Chen et al., 2015; Hui et al., 2007; Liden et al., 2014). However, in our meta-analysis, only few studies investigated the multilevel effects of servant leadership. Thus, this review highlights the need for future research that continues to examine the multilevel effects of servant leadership from both the top-down and bottom-up perspectives.

Fourth, most prior studies have focused only on a single mediator within a study. Only a few studies have examined multiple mediators associated with different sets of employee outcomes (Neubert et al., 2008; Van Dierendonck et al., 2014) for the purpose of distinguishing servant leadership from other leadership constructs (e.g., transformational leadership). Therefore, future studies should include multiple pathways of servant leadership to distinguish between the psychological processes involved. For example, although we apply social exchange theory as our general framework, social learning theory has also been used to
investigate servant leadership in organizations (e.g., Liden et al., 2008; Mayer et al., 2009).

Studies comparing these two processes in promoting efficient operations and service quality represent a promising research avenue.

Finally, given that servant leadership research is still in its infancy, most of the existing studies have focused on examining its consequences rather than its antecedents. Studies exploring its antecedents are therefore encouraged to gain a more complete picture of servant leadership. For example, according to van Dierendonck (2011), leader characteristics such as self-determination and moral development may play an influential role in an individual’s development as a servant leader. In addition to leaders’ characteristics, examining organizational structures and cultures may also be a promising future research avenue for the investigation of the potential antecedents of servant leadership (Liden et al., 2014).

Conclusion

Despite the increasing interest of both practitioners and researchers in servant leadership, the effectiveness of servant leadership across different analytic levels and cultures remains unclear. Based on social exchange theory, our study summarizes the existing empirical servant leadership research and offers strong support for the positive effect of servant leadership on followers’ job-related outcomes, leader-related outcomes and group-related outcomes. We further shed light on the moderating impact of cultural dimensions on the effectiveness of servant leadership. Our cumulative data not only indicate multiple consequences of servant leadership through attitudes and behaviors but also suggest the promising possibility that the impacts of servant leadership may vary across Western and Asian cultural contexts (Lam et al., 2012; Liden, 2012). With these findings this meta-analysis also provides useful practical implications for organizations, such that organizations
should develop a portfolio of leader selection and training processes that promote servant leadership.

References


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1 The Supplementary Materials, which contain both the meta-regression figures and references list used for studies included in the meta-analysis of the relationships between servant leadership and its consequences, for this article can be found online at: https://osf.io/pdm2g/?view_only=009d1c49b3dc472d8fffc767486e29889
Figure 1. Theoretical model

- Cultural dimensions (H6-9)
  - Traditionality;
  - Masculinity;
  - Individualism;
  - Power distance.

- Job-related outcomes (H1-H3)
  - Attitudinal outcomes (H1)
    - H1a: Psychological empowerment; Engagement; Intrinsic motivation.
    - H1b: Follower’s trust; Organizational identification; Organizational commitment; Turnover intention.

  - Behavioural outcomes (H2)
    - H2a: In-role performance; Service quality.
    - H2b: Creativity; OCBI; OCBO.

  - Well-being outcomes (H3)
    - H3a: Job demand; Emotional exhaustion.
    - H3b: Perceived work support; Job satisfaction.

- Leader-related outcomes (H4)
  - H4: LMX; Leader effectiveness

- Team-related consequences (H5)
  - H5: Service climate; Group service performance

Figure 2. The mediation effects of servant leadership on OCB and job performance via LMX after controlling transformational leadership
Table 1 Meta-analysis of relationships between servant leadership and its antecedents and consequences

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Note: k = the number of participants in each analysis; N = the number of independent effect sizes included in each analysis; 95% CI = 95% confidence interval for $\bar{r}$; LL = lower level of the 95% CI; UL = upper level of the 95% CI; Q = the Q statistic, a measure of potential heterogeneity; p = the p-value for the Q statistic; I = the I² statistic, a measure of the proportion of dispersion that can be attributed to real differences in effect sizes as opposed to within-study error.
Table 2 Moderating effects of cultural dimensions on the relationship between servant leadership and its outcomes

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<tr>
<th>Variable</th>
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<th>Masculinity</th>
<th>Individualism</th>
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<td>k  B</td>
<td>k  B</td>
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Note: k = number of samples in regression analysis; B = regression coefficient for moderator; SE = standard error
Appendix A. Results of one-sample removed analysis

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<th>Variables</th>
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<th>$\bar{r}$</th>
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<th>Q</th>
<th>p</th>
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<th>T</th>
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Note: k = the number of participants in each analysis; N = the number of independent effect sizes included in each analysis; 95% CI = 95% confidence interval for $\bar{r}$; LL = lower level of the 95% CI; UL = upper level of the 95% CI; Q = the Q statistic, a measure of potential heterogeneity; p = the p-value for the Q statistic; T = the standard deviation of the true effect size; $I^2$ = the $I^2$ statistic, a measure of the proportion of dispersion that can be attributed to real differences in effect sizes as opposed to within-study error.
Appendix B. Sample Characteristics for Primary Studies Included in the Meta-Analysis

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