CEOs' Prosocial Behavior, Their Careers and Corporate Policies

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Abstract: This paper examines the associations of Chief Executive Officers' (CEOs') prosocial behavior with their career paths and corporate policies. Using individuals' involvement with charitable organizations as a proxy for prosocial behavior, we find that prosocial individuals are promoted to CEOs faster than non-prosocial individuals. In addition, compared to firms with non-prosocial CEOs, firms with prosocial CEOs tend to have lower executive subordinate turnover, implement more employee-friendly policies, experience higher customer satisfaction, and engage in more socially responsible activities. We also find that firms with prosocial CEOs have higher firm value. These results are corroborated when we compare changes in corporate policies and firm value around different types of CEO turnovers: a prosocial CEO replacing a non-prosocial CEO versus other types of CEO turnovers. Our results thus suggest that prosocial CEOs are more likely to make corporate decisions that benefit a wide range of firm stakeholders.

Keywords: Prosocial behavior; Prosocial tendency, CEO career; Corporate policies; Employee turnover; Customer satisfaction; Corporate social responsibility.

JEL Classification: D64, G40, G41, J24, M14, M51

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1. Introduction

Individuals often engage in prosocial behavior – activities that primarily benefit others. For example, people make financial or nonfinancial donations (e.g., giving blood), volunteer at charitable organizations, and help strangers (Batson and Powell, 2003). While individuals usually engage in such behavior to increase others' well-being, prior studies have documented that prosocial behavior also significantly improves the provider's own psychological well-being, such as increased levels of happiness and life satisfaction. Moreover, prosocial behavior, particularly volunteering, can help providers to develop their social network and job-related skillsets (e.g., Harlow and Cantor, 1996; Meier and Stutzer, 2008; Wilson, 2012).

To the extent that prosocial behavior reveals individuals' other-regarding preferences and equips them with better skillsets and social connections, individuals who engage in prosocial behavior (hereafter prosocial individuals) are likely to have different career paths and make different decisions in their jobs. This paper investigates these issues by focusing on prosocial Chief Executive Officers (CEOs). Specifically, we ask two questions. First, does the time taken to reach the CEO position differ between prosocial and non-prosocial individuals? Second, once a prosocial individual becomes a CEO, does she treat the firm's stakeholders, including its employees, customers, shareholders, and the society differently from a non-prosocial CEO?

It is unclear, *ex ante*, how prosocial tendencies affect a manager's career development. On the one hand, prosocial behavior leads to better emotional well-being and job skills (Sieber, 1974;

¹ For example, based on a survey by Americorps in 2018, 30.3% of American adults volunteer through an organization. According to Giving USA, individuals donated \$281.86 billion to charity in 2016, which represents 72% of all charitable donations in that year (https://giving usa.org/tag/giving-usa-2017/).

² Other non-mutually exclusive incentives behind prosocial behavior are to establish a social reputation of being a "good" person and to obtain financial rewards (Benedou and Tirole, 2006; Carpenter and Myers, 2010). Please see a more detailed discussion in Section 2.

Marks, 1977; Anik, Aknin, Norton, and Dunn, 2009), which can increase an individual's productivity at work. In addition, a prosocial manager may benefit from increased trust among her coworkers as well as an improved social reputation and network, and thus be more effective in her job (Whitener, Brodt, Korsgaard, and Werner, 1998). On the other hand, prosocial behavior also consumes a manager's resources such as time and effort, which could compromise her job performance, and thus negatively affect her career advancement to a top management position.

We measure prosocial behavior for a broad cross-section of individuals using their involvement with charitable organizations, since the primary objective of such organizations is to improve societal welfare by helping people in need. Specifically, we use the BoardEx database to obtain data on managers' off-the-job activities, including involvement with various foundations and charitable groups. We define an individual as prosocial if she is involved with at least one organization that is classified as a charitable organization by the Internal Revenue Service (IRS).^{3,4}

To validate our measure of prosocial behavior, we examine its association with a CEO's use of personal pronouns during earnings conference calls. Psychological research shows that self-centered individuals are more likely to take credit for good outcomes and to blame others for bad outcomes (Stucke, 2003). We expect prosocial CEOs to exhibit the opposite behavior as they have other-regarding preferences and are less egocentric. To test this expectation empirically, we regress a CEO's prosocial tendencies on her use of first-person singular, first person plural, and third-person pronouns during conference calls (Li, 2010; Chen and Loftus, 2019). We find that

³ The IRS defines "charitable" as follows: "The term charitable is used in its generally accepted legal sense and includes relief of the poor, the distressed, or the underprivileged; eliminating prejudice and discrimination; defending human and civil rights secured by law; and combating community deterioration and juvenile delinquency." (https://www.irs.gov/charities-non-profits/charitable-purposes).

⁴ The most popular position CEOs hold in charitable organizations is board member. According to IRS's Governance and Related Topics - 501(c)(3) Organizations (2008), charities should generally not compensate persons for service on the board of directors except to reimburse direct expenses of such service. Therefore, it is reasonable to assume that being a board member of charitable organization is prosocial behavior.

when a firm announces a positive earnings surprise, a prosocial CEO is significantly less likely to use first-person singular pronouns, and is more likely to use first-person plural and third-person pronouns than a non-prosocial CEO. In contrast, when a firm announces a negative earnings surprise, we find that a prosocial CEO is less likely to use third-person pronouns than a non-prosocial CEO. These results suggest that a prosocial CEO is less likely to attribute good performance to herself and to blame others for bad performance, providing some validation that our measure captures prosocial individuals' other-regarding tendencies.

We find that it takes a prosocial individual significantly less time to be promoted to CEO than a non-prosocial individual, after controlling for factors that may affect manager promotion such as educational background and experience in non-charitable organizations. On average, relative to non-prosocial individuals, prosocial individuals are promoted to the CEO position 1.398 years faster. This magnitude is economically meaningful since it takes about 22 years for an individual to be promoted to a CEO position from the start of her career on average.

We next examine whether a prosocial individual, after becoming a CEO, makes different corporate decisions regarding various firm stakeholders than a non-prosocial CEO. To the extent that a prosocial CEO is more concerned about others' well-being, she is likely to build a more trusting relationship with her employees, care more about her customers' satisfaction, and engage in more corporate social responsibility (CSR) activities than a non-prosocial CEO. To test these predictions, we conduct two sets of analyses. In the first set of analyses, we use all observations for which we can obtain data on CEO prosocial behavior and other necessary variables. This sample constitutes our full sample. It is possible, however, that the associations between having a prosocial CEO and certain corporate policies in our full sample are driven by underlying firm characteristics, such as firm culture or tradition. To address this concern, in the second set of tests, we focus on firms with CEO turnovers during our sample period and examine corporate policy

changes around CEO turnovers. This sample allows us to examine whether a change in CEO prosocial type (i.e., a switch between prosocial and non-prosocial CEOs) leads to changes in corporate policies.

To investigate how prosocial CEOs treat their employees, we first test whether the turnover of executive subordinates is lower for firms with prosocial CEOs than for firms with non-prosocial CEOs. We focus on executive subordinates such as Chief Financial Officers (CFOs) and Chief Operating Officers (COOs), since they work and interact closely with CEOs. Thus, a CEO's prosocial tendencies and her relationship with executive subordinates are likely to influence their turnover rate. We find that for executive subordinates below the age of 50, having a prosocial CEO reduces their likelihood of leaving the firm in the following year by 1.1%, after controlling for firm performance, subordinate characteristics, local area's prosocial tendencies, etc.⁵ This result is both statistically significant and economically meaningful, given that the average executive subordinate turnover rate in our sample is 17.5%. In contrast, we find that a CEO's involvement with *non-charitable* organizations is not significantly associated with executive subordinate turnover, suggesting that the negative association between CEOs' prosocial behavior and subordinate turnover is not driven by CEOs' involvement in general off-the-job activities, but by CEOs' prosocial tendencies.

We also examine how prosocial CEOs treat their rank-and-file employees by looking at their firm's policies related to employee welfare such as the firm's union relations, cash profit-sharing plans, worker involvement, retirement benefits, and policies on employee health and safety. We obtain firms' employee relations rating from the KLD STATS database and find that a firm's rating on employee welfare is significantly and positively associated with CEO involvement

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⁵ We focus on subordinates below the age of 50 because older subordinates have less career mobility, and therefore are less likely to leave their firm for reasons related to their relationships with CEOs. Please see more supporting evidence and discussion in Section 4.2.1.

in charitable organizations, but not with CEO involvement in non-charitable organizations. This result suggests that firms with prosocial CEOs are more likely to have corporate policies that consider their employees' welfare.

We then turn to another important group of stakeholders of the firm: customers. We investigate whether prosocial CEOs care more about customers by examining the level of their customers' satisfaction, measured by customer satisfaction scores from the American Customer Satisfaction Index (ACSI). We find that customer satisfaction is significantly and positively associated with CEO involvement in charitable organizations, but not with CEO involvement in non-charitable organizations. This result indicates that firms with prosocial CEOs are more customer-centric than those with non-prosocial CEOs.

We also examine whether prosocial CEOs are more likely to consider overall societal welfare in their decision making, using the KLD STATS rating of firm policies on various CSR initiatives such as community, employee relations and environment. We find that firms' overall CSR rating is significantly and positively associated with CEO prosocial behavior, suggesting that firms with prosocial CEOs have more socially responsible policies.

Finally, we investigate the association between CEOs' prosocial tendencies and firm value and performance, measured by Tobin's Q, size-adjusted stock returns and return on total assets (ROA). We find that prosocial CEOs are associated with higher Tobin's Q, stock returns and ROA.

We continue to find consistent results in the second set of analyses, where we compare corporate policy changes around different types of CEO turnovers. Specifically, we find that after a prosocial CEO replaces a non-prosocial CEO, firms experience less increases in subordinate turnover and less decreases in employee-friendly policies, customer satisfaction and overall CSR activities than after other types of CEO replacements. Overall, these results suggest that prosocial CEOs improve subordinate retention, establish more employee-friendly policies, have higher

customer satisfaction, and engage in more socially responsible activities. We also find that Tobin's Q increases more after a prosocial CEO replaces a non-prosocial CEO than after other types of CEO turnovers. However, changes in size-adjusted stock returns and ROA are not significantly associated with the type of CEO turnover. Path analyses suggest that prosocial CEOs improve their firms' Tobin's Q both directly and indirectly through establishing more employee friendly policies and being more socially responsible.

Our paper is subject to two potential caveats. First, it is possible that certain underlying changes in firms cause them to hire prosocial CEOs and to change certain corporate policies. To rule out this endogeneity concern, we conduct two sets of additional analyses. First, we examine whether CEO turnover and corporate policy changes are driven by abnormal changes in performance (measured by Tobin's Q, size-adjusted returns, and ROA) and the percentage of prosocial directors in the year before a prosocial CEO replaces a non-prosocial CEO. We do not find significant differences in these performance changes when comparing firms that replace a non-prosocial CEO with a prosocial CEO and firms with other types of CEO turnovers. Second, we conduct placebo tests by assuming that a non-prosocial to prosocial CEO turnover happened earlier than the actual CEO turnover. We do not find significant associations between CEO turnover and corporate policy changes in these placebo tests, suggesting that the changes in corporate policies that we examine are likely driven by prosocial CEOs. In addition, it is possible that firms choose CEOs based on their prosocial tendencies to meet firms' needs for certain corporate policies (e.g., CSR policies). However, under this explanation, the fact that the board

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⁶ Our controls for time-varying firm characteristics and year fixed effects also help to alleviate the concern that our results are driven by changes in firm-level factors and overall environments.

⁷ We acknowledge that we cannot fully rule out concerns over correlated omitted variables. However, as suggested in Glaeser and Guay (2017), compared to studies targeted to address identification issues, broad sample studies are often more generalizable and can use various approaches to narrow omitted variable concerns, making broad sample studies valuable to the literature.

chooses CEOs with prosocial tendencies to meet firms' needs still suggests that the board believes that CEOs' prosocial tendencies matter for firms' corporate policies (Bertrand and Schoar 2003).

Second, because BoardEx generally does not provide dates for when an individual joins and leaves a charitable organization, our prosocial measure is time invariant. Prior studies (e.g., Eisenberg et al. 2002, Batson and Powell, 2003) have documented that prosocial tendencies have its roots in early childhood and are generally consistent across situations and environments. Therefore, our measure likely captures prosocial tendencies that are stable across time. Nevertheless, CEOs may be more likely to be invited to join charitable organizations if they are promoted to CEO at a younger age or after they become CEOs of companies that are already improving how they treat various stakeholders. To address this concern, we identify individuals who are involved with charitable organizations before they become CEOs by comparing the 2013 and 2019 versions of BoardEx. We focus on individuals who are not CEOs in the 2013 version of BoardEx and use their activities reported in the 2013 version of BoardEx to measure their prosocial behavior. We examine these individuals' career path after 2013 using 2019 version of BoardEx and continue to find that prosocial individuals become CEOs earlier, prosocial CEOs treat firm stakeholders better, and firms with prosocial CEOs have higher firm value. Using this sample, we also find that prosocial individuals are more likely to become CEOs than non-prosocial individuals.

Our study makes two important contributions to the literature. First, we contribute to the literature on prosocial behavior. Prosocial tendencies are a fundamental aspect of human nature, affecting how individuals interact with others in the society (Batson and Powell, 2003). Primarily using surveys and experiments, research in sociology, psychology and economics has extensively investigated the incentives behind prosocial behavior and its benefits to individuals, including psychological and physical well-being (Sen, 1977; Meier and Stutzer, 2008; Wilson, 2012). We

add to this literature by documenting the economic effects of prosocial behavior. Specifically, our findings indicate that individuals' prosocial tendencies can benefit their career development and influence the decisions they make in their jobs. In addition, we develop a new measure of prosocial behavior using executives' involvement with charitable organizations, which allows researchers to study the determinants and consequences of individual prosocial behavior for a large sample.

Second, we contribute to the literature that examines individual executives' effects on corporate policies. Recent literature goes beyond traditional economic determinants of corporate policies and establishes that personal characteristics of executives play an important role in shaping firm policies (e.g., Bertrand and Schoar, 2003). We extend this line of research by examining a new and fundamental characteristic of executives - prosocial tendencies (Batson and Powell, 2003). Our results suggest that CEOs' prosocial tendencies have broad and significant effects on the welfare of various firm stakeholders.

2. Literature Review and Hypothesis Development

2.1 Literature on prosocial behavior

In this section, we review the literature on prosocial behavior, including its definition, determinants, and consequences. Prosocial behavior is broadly defined as acts that are perceived to primarily benefit others (Penner, Dovidio, Piliavin, and Schroeder, 2005). Prior studies have identified three non-mutually exclusive motivations underlying prosocial behavior: increasing others' well-being (i.e., altruism), concerns for social reputation, and financial rewards (Bénabou and Tirole, 2006; Carpenter and Myers, 2010).

Prosocial behavior could be driven by altruism; that is, an individual being willing to increase others' consumption by using her own financial or nonfinancial resources (Becker, 1976). Altruistic individuals engage in prosocial behavior because they care for the well-being of others. Evidence from research in economics, sociology and biology suggests that altruism exists and is a

fundamental aspect of human nature (Piliavin and Charng, 1990; Meier, 2007). Further, levels of altruism vary across humans and can be developed either genetically or through early childhood experience, indicating that altruism is a fairly stable personal characteristic. Next, incentives to build social reputation can also lead to prosocial behavior. Specifically, prosocial behavior might reflect a desire to portray the image of being a "good" person. For example, individuals may behave prosocially to gain social approval for their behavior and to reap the resulting benefits from such approval (Akerlof, 1980; Bénabou and Tirole, 2006; Ellingsen and Johannesson, 2007). Nevertheless, motivations stemming from social reputation also drive people to consider others' needs and engage in behavior to meet those needs. Finally, individuals may engage in prosocial behavior to gain direct or indirect financial rewards (Bénabou and Tirole, 2006).

In terms of the consequences of prosocial behavior, prior research has mostly used an experimental or survey approach to understand the psychological and emotional benefits of donation, volunteer work or helping behavior. In general, the results of these studies indicate that such behavior leads to greater psychological well-being, such as happiness, life satisfaction and confidence (Musick and Wilson, 2003; Lyubomirsky, Tkach, and Sheldon, 2004; Dunn, Aknin, and Norton, 2008; Mellor et al., 2008). For example, Dunn, Aknin, and Norton (2008) find in a survey and field study that people who spend more of their income on others experience greater happiness. Besides monetary giving, prior studies have also found that volunteering and committing acts of kindness increase happiness. For example, using large-scale survey data, Meier and Stutzer (2008) find that volunteers experience greater life satisfaction than non-volunteers.

Studies have also found that prosocial behavior can benefit individuals' social networks, job productivity, and reputation amongst colleagues. Engaging in volunteer work can increase individuals' likelihood of gathering useful information and help individuals develop social contacts that benefit their career and business (Musick and Wilson, 2003; Meier and Stutzer, 2008).

In addition, prosocial activities such as volunteering likely offer opportunities for people to develop and improve various work-related skills, including team building, communication, and interpersonal skills (Rodell, Breitsohl, Schröder, and Keating, 2016). Prior research has also proposed that individuals' personalities are enhanced as they participate in multiple roles because they learn to be tolerant of discrepant views and be flexible in adjusting to different situations (Sieber, 1974; Marks, 1977). Finally, Blau (1964) and Flynn (2003) show that more generous individuals have better reputation amongst their co-workers. Taken together, the findings of prior studies suggest that engaging in prosocial activities outside of one's main job has psychological and emotional benefits (e.g., increased happiness) and work-related benefits (e.g., improved social connections and skillsets). However, as far as we know, no prior studies have examined whether an individual's prosocial tendencies relate to her career development and on-the-job decision making. This study fills this gap by focusing on CEOs.

2.2 Hypothesis development

2.2.1 Prosocial behavior and CEO careers

Prosocial behavior can benefit individuals' career development for three possible reasons. First, prosocial behavior such as charitable giving or volunteering leads to happiness, self-confidence, and other positive emotions at the individual level (Dunn, Aknin, and Norton, 2008; Anik, Aknin, Norton, and Dunn, 2009; Midlarsky, 1991), which psychology studies show improve productivity (e.g., Achor, 2011). As an example, Rodell (2013) finds in two field studies that employees who volunteer tend to have improved concentration at work, leading to better job performance. Better job performance driven by prosocial behavior could in turn increase the likelihood of promotion.

Second, prosocial behavior is likely to expand one's skillset for career development (e.g., interpersonal skills). These effects result from positive synergies between individuals' off-the-job

prosocial activities and on-the-job performance (Marks, 1977; Musick and Wilson, 2003; Rodell, Breitsohl, Schröder, and Keating, 2016). For example, sociology theory predicts that participation in activities outside one's main job can be beneficial in helping individuals learn to adapt quickly to different situations, and to improve communication and coordination skills (Sieber, 1974).

Third, prosocial behavior can help individuals to build trust with their colleagues and expand their social network outside the organization, which in turn could benefit their career development (e.g., Blau, 1964; Flynn, 2003). Because prosocial people tend to consider others' needs, they are more likely to cooperate with colleagues rather than shirk or free-ride, which enables them to build trust (e.g., Katz and Rosenberg, 2005; Whitener, Brodt, Korsgaard, and Werner, 1998). Such trust would facilitate communication and enhance cooperation among their team, which are critical for leadership and career progression. In addition, to the extent that other-regarding preferences are associated with the willingness to understand others' feelings, thoughts and behavior, prosocial individuals tend to have higher emotional intelligence, which is a key leader attribute (e.g., Zaccaro et al., 2009). Thus, we expect that prosocial behavior helps to build and improve one's relationship with others and positively impacts one's career.

On the other hand, prosocial activities might harm a manager's career development since these activities take time and effort. The scarcity view in sociology studies suggests that multiple roles create strain on individuals; people do not have enough energy for multiple roles and thus may have to make compromises (Goode, 1960). Following this line of reasoning, prosocial behavior could dilute managers' focus on their job responsibilities and hinder their ability to do their jobs effectively. Given that there is no clear ex ante prediction on the relation between prosocial behavior and career success, we state our first hypothesis in null form:

H1: Prosocial behavior is not associated with the time it takes for an individual to become a CEO.

2.2.2 Prosocial CEOs and corporate policies

Since a prosocial individual is more likely to have other-regarding preferences, once she becomes a CEO, she is likely to treat and interact with employees, customers, shareholders, and other societal members differently from a non-prosocial CEO. As suggested in the management literature, CEOs' personal values influence their firms' decision-making processes (Wally and Baum, 1994). With respect to CEOs' direct subordinates, we expect prosocial leadership to be associated with lower executive subordinate turnover. Executive subordinates differ from other employees in that they interact with the CEO frequently, which allows them to gain insight to the CEO's personality and management style. Prosocial CEOs' tendency to consider subordinates' needs likely facilitates developing and sustaining goodwill with them. Prior research has shown that leaders who are willing to incur personal costs to serve the goals of a group are perceived more positively by their subordinates (Van Knippenberg and Van Knippenberg, 2005; De Cremer and Van Knippenberg, 2004). Moreover, Haynes, Josefy, and Hitt (2015) propose that CEOs who show a high concern for others actively share information with subordinates and are able to maintain effective relationships with them. Therefore, we expect that prosocial CEOs are more likely to establish a trustworthy working relationship with subordinates, which leads to lower executive subordinate turnover. 8 Consistent with this conjecture, Kachaner, Stalk, and Bloch (2012) find that employee retention rates are significantly higher for family firms than non-family firms, partially due to a family-oriented culture and a willingness to invest in employees.

In addition to how prosocial CEOs treat their direct subordinates, we investigate how prosocial CEOs treat employees, including rank-and-file employees. Since prosocial CEOs tend

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⁸ We do not have a directional prediction for the association between prosocial leadership and performance-based subordinate turnover. On one hand, prosocial CEOs might be more likely to focus on firm goals and display less favoritism, which will lead to more performance-based subordinate turnover. On the other hand, firms with prosocial CEOs might have more generous employee policies that protect employees, which would reduce performance-based subordinate turnover.

to be concerned about others' well-being, we expect them to be more likely to establish corporate policies that take employees' well-being into consideration (e.g., strong retirement benefits or generous maternity policies). We state our second hypothesis in alternative form as the following:

H2a: Non-CEO executives are less likely to leave firms with prosocial CEOs than firms with non-prosocial CEOs.

H2b: Firms with prosocial CEOs implement more employee-friendly corporate policies than firms with non-prosocial CEOs.

Note that these hypotheses are not without tension. Prior studies have found that employee welfare and satisfaction is positively associated with long-run stock performance and firm value (e.g., Edmans, 2011; Jiao, 2010). To the extent that non-prosocial CEOs are incentivized to maximize firm value due to compensation and career concerns, non-prosocial CEOs may also treat their subordinates well and have employee-friendly policies. Under this argument, we would expect no difference in CEO subordinate turnover and employee-friendly corporate policies between firms with prosocial and non-prosocial CEOs.

Other than employees of the firm, we also expect prosocial CEOs to display more consideration for customers. Prior research has shown that CEOs have a direct influence on firm-customer relationships and overall customer satisfaction (e.g., Luo, Wieseke, and Homburg, 2012; Luo, Kanuri, and Andrews, 2014). Prosocial CEOs are likely more willing to invest resources to build firm-customer relationships, and less willing to extract short term rents from customers through increasing product pricing or decreasing product quality. A thought piece by Haynes, Josefy, and Hitt (2015) proposes that CEOs who are concerned for others' well-being are more likely to consider the effect of firm actions on customers by influencing product pricing, investment in customer service quality, and product control. Such influence likely leads to higher customer satisfaction. As a result, we expect that firms with prosocial CEOs have higher customer

satisfaction. 9 We state our third hypothesis in alternative form as the following:

H3: Firms with prosocial CEOs have higher customer satisfaction than firms with non-prosocial CEOs.

Finally, we consider how prosocial CEOs engage in overall CSR activities. Following prior literature (e.g., McWilliams and Siegel, 2000; Dhaliwal et al., 2011; Lys, Naughton, and Wang, 2015), we define CSR as instances where a firm voluntarily engages in actions and makes decisions that advance social causes and that benefit the society and stakeholders other than their shareholders. These actions could involve committing to environmental protection, improving product safety, and providing community support. Since prosocial individuals tend to consider others' well-being, we expect that prosocial CEOs are more willing to spend resources on their firm's social responsibilities. ¹⁰ We state our fourth hypothesis in alternative form as the following:

H4: Firms with prosocial CEOs engage in more socially responsible activities than firms with non-prosocial CEOs.

2.2.3 Prosocial CEOs and firm value

Finally, an important question is whether it is beneficial for shareholders to have a prosocial CEO. On the one hand, a CEO acts as an agent of shareholders. To the extent that a prosocial CEO cares more about shareholders' interests than a non-prosocial CEO, she is less likely to sacrifice shareholders' interests to maximize her own utility, leading to fewer agency problems such as shirking and asset expropriation. Fewer agency problems likely result in better firm performance and an increase in firm value (Jensen and Meckling, 1976). On the other hand, prosocial activities require time and energy from CEOs, which may dilute CEOs' focus on their jobs and thus

⁹ Prior research has documented mixed evidence on the association between customer satisfaction and firm financial performance (e.g., Ittner and Larcker, 1998; Luo and Homburg, 2007). Therefore, it is unclear if CEOs' incentives to maximize firm value due to compensation or career concerns complicate the association between CEOs' prosocial tendencies and customer satisfaction. The same applies to socially responsible activities given mixed prior evidence on the relation between CSR and firm performance (Waddock and Graves, 1997; Lys, Naughton, and Wang, 2015).

¹⁰ Consistent with this argument, based on a survey of 80 CEOs, Agle, Mitchell, and Sonnenfeld (1999) document a positive univariate association between CEOs' other-regarding values and the community aspect of CSR performance.

negatively impact firm performance and value.

In addition, CEOs prosocial tendencies may relate to firm performance and value indirectly through their influence on corporate policies. Specifically, prior studies find that employee-related CSR is positively associated with firm performance and value (Edmans, 2011; Jiao, 2010). If prosocial CEOs improve employee welfare, we expect that prosocial CEOs also improve firm performance through implementing more employee-friendly policies. However, since evidence on the associations of firm performance with customer satisfaction and corporate social responsibility is largely mixed, it is unclear how prosocial CEOs' corporate policies on customer satisfaction and corporate social responsibility affect firm performance. Taken together, *ex ante*, it is not clear how CEOs' prosocial tendencies are associated with firm value and performance. Hence, we state our last hypothesis in the null form:

H5: CEOs' prosocial tendencies are not associated with their firm value and performance.

3. Data on CEOs' prosocial behavior and their career paths

Using BoardEx database, we identify 71,658 individuals who first became CEOs at either private or public companies from 1950 to May 2019.¹¹ For these individuals, we determine their involvement with charitable organizations in two steps. First, we obtain from BoardEx their memberships and involvement at various off-the-job organizations, including leisure clubs, professional organizations and charitable organizations.¹² Second, we match these organizations'

¹¹ We downloaded BoardEx data in May 2019 and thus our measure for charity involvement is till May 2019.

¹² BoardEx's data sources include company websites for public, private, and not-for-profit organizations, annual reports and accounts, companies' public filings, and select news outlets. To the extent that the data is partially based on managers' own disclosure on their involvement in charitable activities and the disclosure is possibly driven by the managers' desire to promote themselves, it should bias against finding our results as these managers are less likely to care about employees, customers or CSR. In addition, we find that the number of a manager's social activities captured by BoardEx is significantly and positively correlated with the duration of BoardEx's coverage of the manager. As a robustness check, we include the duration of BoardEx's coverage of the manager as an additional control in all our regression analyses. Our results do not change qualitatively and our inferences remain the same.

names with organizations classified as charitable by the IRS.¹³ If an individual has been involved with at least one charitable organization during her career, we identify her as prosocial, for whom a variable, *Charity*, equals one.¹⁴ We define *NonCharity* equal to one if an individual has been involved with at least one non-charitable organization during her career. While *Charity* is our main treatment variable, we control for *NonCharity* in all analyses to alleviate the concern that individuals get involved with charitable organizations due to high ability instead of prosocial tendencies. Because BoardEx does not provide data on the timing of individuals' involvement with charitable organizations for most individuals, our *Charity* and *NonCharity* variables are individual specific and time-invariant. Prior research (e.g., Eisenberg et al. 2002; Penner et al., 2005) has documented that prosocial tendencies are traceable to early childhood and are relatively enduring, suggesting that prosocial preferences tend to be fairly stable over time. ¹⁵¹⁶

We validate our prosocial measure by examining its association with the CEO's use of personal pronouns in earnings conference calls. Psychological research (e.g., Stucke 2003) shows that self-centered individuals are more likely to take credit for good outcomes and to blame others

¹³ IRS lists all tax exempt organizations in the Exempt Organizations Business Master File Extract, which can be downloaded at https://www.irs.gov/charities-non-profits/exempt-organizations-business-master-file-extract-eo-bmf. A sub-category of tax exempt organizations is "Charitable Organizations" (subsection code 03 and classification code 1 in the Exempt Organizations Business Master File Extract). For more information on IRS classifications, see https://www.irs.gov/pub/irs-soi/eo_info.pdf. Examples of charitable organizations in our sample include American Cancer Society, Big Brothers Big Sisters of America, United Way Inc., Habitat for Humanity and Teach for America. ¹⁴ Our conversations with members serving on charity boards indicate that a charitable organization looks for people who believe in the mission and value of the charity to join. Similarly, people are more likely to sacrifice their own money, time and other resources for the charitable organizations if they share the same mission and value as the organizations. Therefore, there is likely a positive association between individuals' prosocial tendencies and their involvement with charitable organizations.

¹⁵ For example, Penner, Dovidio, Piliavin, and Schroeder (2005) state "these [prosocial] tendencies are relatively stable across a person's life" (p. 375). Moreover, Batson and Powell (2003), when reviewing prosocial literature, state that dispositional factors, which tend to be stable, can predict higher cost, non-spontaneous, and long-term prosocial behavior more accurately than other types of prosocial behavior. CEOs' prosocial behavior we examine likely has higher cost and longer-term involvement as the common positions that the CEOs hold in charitable organizations include directors, trustees, (vice) chairman, (vice) president and advisory board members. CEOs are unlikely to hold these positions spontaneously and the positions typically last at least several years.

¹⁶ In Section 5.3, we provide an additional analysis to address the potential concern associated with having a time invariant measure of *Charity*.

for bad outcomes. To the extent that prosocial tendencies are opposite to egocentrism, we expect prosocial CEOs to use more first-person singular pronouns (I, me, mine, etc.), less first-person plural (we, us, our, etc.), and less third-person pronouns (she, he, they, etc.) when discussing their firms' negative financial performance, and vice versa for positive performance. To conduct this validity test, we obtain data from Chen and Loftus (2019) where they count first-person singular pronouns, first-person plural pronouns, and third-person pronouns a CEO used during the presentation and Q&A sessions of conference calls from 2002 to 2016. 17 We estimate a regression of a CEO's prosocial tendencies on these pronouns for firms with positive and negative earnings surprises separately. We find that when a firm announces a positive earnings surprise, a prosocial CEO is significantly less likely to use first-person singular pronouns, and is more likely to use first-person plural and third-person pronouns than a non-prosocial CEO. When a firm announces a negative earnings surprise, we find that a prosocial CEO is less likely to use third-person pronouns. Taken together, this result suggests that a prosocial CEO is less likely to attribute good firm performance to herself and blame others for bad performance, consistent with our prosocial measure capturing an individual's other-regarding preferences.

To test whether prosocial tendencies affect an individual's career progression, we measure the time taken for an individual to become a CEO (*TimeToCEO*) as the year difference between when an individual first becomes a CEO and when she starts her career. We use an individual's employment history from BoardEx to determine the year when she first becomes a CEO. Following Schoar and Zuo (2017), we obtain each individual's birth year from BoardEx and use the age of 24 as her career starting year. ¹⁸ We obtain other control variables on CEOs'

¹⁷ We thank Zhenhua Chen for sharing his data on CEOs' use of personal pronouns in earnings conference calls.

¹⁸ This empirical strategy helps us to address the endogenous choices that individuals make in terms of when to start their career. For example, individuals may choose to accelerate or delay the start of their career depending on the economic conditions in that year, which also affect the time they take to become CEO (Schoar and Zuo, 2017). The age of 24 is also the mean and median age that CEOs in our sample start the first job. As a robustness check, we use

demographic information from BoardEx. After removing individuals that do not have necessary data, we have a final sample of 41,205 individuals. Among them, 3,548 individuals became CEOs of public firms from 1950 to May 2019.¹⁹

4. Empirical Results

4.1. Testing H1 – Prosocial CEOs and their careers

To test H1, we perform an OLS regression of the time taken to be promoted to a CEO (*TimeToCEO*) on an indicator variable for charity involvement (*Charity*):

$$\begin{split} & TimeToCEO_{i} = \beta_{0} + \beta_{1}Charity_{i} + \beta_{2}NonCharity_{i} + \beta_{3}Woman_{i} + \beta_{4}MBA_{i} + \\ & \beta_{5}Grad_Law_{i} + \beta_{6}CPA_{i} + \beta_{7}Auditor_{i} + \beta_{8}Consultant_{i} + \beta_{9}Banking_{i} + \beta_{10}Legal_{i} + \\ & \beta_{11}Investment_{i} + \beta_{12}PriorJobs_{i} + \beta_{13}Log_Network_{i} + \beta_{14}Log_AT_{i,j,t-1} + \beta_{15}MTB_{i,j,t-1} + \\ & \beta_{16}Leverage_{i,i,t-1} + Industry\ fixed\ effects + StartYear\ fixed\ effects + \varepsilon \end{split}$$

As discussed above, *TimeToCEO* is the number of years individual *i* takes to become a CEO from the beginning of her career. *Charity* is an indicator variable for the individual's charity involvement, while *NonCharity* is an indicator variable for her non-charity involvement. We control for personal characteristics and background as well as firm characteristics following Schoar and Zuo (2017). For personal characteristics, we include CEO gender (*Woman*), whether she earned an MBA degree (*MBA*), whether she holds a Juris Doctorate degree (*Grad_Law*), and whether she is a Certified Public Accountant (*CPA*). We also control for professional experience before becoming CEO. Specifically, we identify if individual *i* worked as an auditor or a consultant, and whether she had experience in banking, legal, and investment industries before she became a CEO. We also construct a variable to capture individual *i*'s job stability, *PriorJobs*, which is the first principal component of the number of industries, firms, and business positions

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individuals' bachelor or Juris Doctorate graduation year as their career starting year to calculate *TimeToCEO* for the sample where such information is available. Our results are qualitatively the same.

¹⁹ We discuss the other databases we use and the related variable definitions in Section 4.

the individual was employed in or held before becoming CEO. Finally, we control for the total number of the individual's social connections via education, working experience and other activities before she became a CEO (*Log_Network*), as prior research shows that managers' social network affects their value in labor market (e.g., Engelberg, Gao, and Parsons, 2013).

In addition, the type of the firm that an individual works for may affect how soon she becomes a CEO. Assume that individual i became a CEO for the first time at public firm j in year t. We control for firm j's size using the natural logarithm of total assets (Log_AT), market to book ratio (MTB), and leverage (Leverage) in the year before she became CEO (year t-I). Due to data availability constraints, we can only obtain these variables for public firms. We also control for industry fixed effects because the time taken to be promoted to CEO might differ across industries. Start-year fixed effects are included to control for the effect of economic conditions during the year an individual starts her career on her career outcomes (Schoar and Zuo, 2017).

Table 1, Panel A presents descriptive statistics for variables used in testing H1. We find that 28.2% (56.1%) of CEOs in our sample are involved with at least one charitable (non-charitable) organization. The average time taken to become a CEO of any type of firm is 22.16 years, whereas it takes 26.29 years to become a CEO of a public firm. With respect to CEOs' personal backgrounds, 5.5% of all the individuals who become a CEO are female, 26.0% of them hold MBA degrees, and 6.5% of them have CPA license. ²¹ Panel B of Table 1 presents Pearson and Spearman correlations between these variables. *Charity* and *NonCharity* are either insignificantly or slightly

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²⁰ When we examine the time taken to become CEO of any type of firm, industry fixed effects are based on BoardEx's industry classification since many firms are private firms and their SIC codes are not available. When we examine the time taken to become a public firm's CEO, we construct industry fixed effects based on two-digit SIC code so that they are the same as the industry fixed effects in all the other analyses in the paper.

²¹ Untabulated results show that compared with individuals who become CEO of private firms, individuals who become CEO of public firms are more likely to hold a MBA, law degree and CPA, are more likely to have auditor experience, are less likely to work in banking and legal industries, move across more industries/firms before becoming public firms' CEO, and have larger network.

positively related to *TimeToCEO*, and many control variables are significantly correlated with both *Charity* and *TimeToCEO*. For example, having an MBA is negatively associated with *TimeToCEO* and is also positively associated with *Charity*. Additionally, *Charity* and *NonCharity* are positively correlated. This correlation matrix highlights the importance of conducting multivariate regressions and controlling for non-charity involvement and other variables in our analyses.

Table 2 presents regression results from the estimation of equation (1). In Columns (1) and (2), we examine the time it takes for an individual to become CEO of any type of firm and CEO of a public firm during our sample period, respectively. The coefficients on *Charity* in these two columns are both negative and significant (p<0.001), suggesting that prosocial individuals take a shorter time to be promoted to CEO. Economically, on average, prosocial individuals are promoted to CEO of any type of firm 1.398 years faster and CEO of a public firm 1.038 years faster than non-prosocial individuals. These economic magnitudes are considerable since it takes about 22 (26) years for an individual to be promoted to a CEO (of a public firm) on average.

For control variables, we find that participating in non-charitable activities also improves career progression, as evidenced by the negative and significant coefficient on *NonCharity*. This result is consistent with non-charity involvement capturing individual characteristics (e.g., ability). We also find that it takes longer for females (*Woman*) and individuals with CPA (*CPA*) to reach the CEO position. In addition, managers with consultant experience, banking industry experience, or investment firm experience get promoted to the CEO position earlier. We find that *PriorJobs* is significantly and positively associated with the time taken to be promoted to a CEO. This finding suggests that it takes longer for individuals who switch between more jobs to become CEO. We also notice that it takes longer for an individual to become a CEO if she has more social connections (*Log_Network*). One possible reason is that managers who have more advanced degrees tend to have more social connections through education institutes. These individuals most

likely started their career later and subsequently become a CEO later. When we control for firm characteristics in Column (2), we find that it takes longer for an individual to become CEO of a larger firm, and a firm with less growth opportunities and higher leverage.

4.2. Testing H2 – Prosocial CEOs and employees

4.2.1. Executive subordinates' turnover

To test H2a that subordinates of a prosocial CEO are less likely to leave the firm, we focus on turnover of the top four executives other than the CEO. For each firm year, we identify the top four executives as the four highest paid executive subordinates based on their total annual compensation, which we obtain from ExecuComp and BoardEx.²² We then obtain each executive subordinate's leaving date from the BoardEx employment file and use data from ExecuComp as a supplement. If neither database provides a subordinate's specific leaving date from a firm, we assume that the subordinate left the firm when she is no longer listed as an executive in the subsequent two years in ExecuComp.²³ For each subordinate-firm-year, we construct an indicator variable, *Turnover*, that is equal to one if the subordinate leaves the firm in the following year and zero otherwise. In addition, we set the *Turnover* indicator to zero if a subordinate is above 65 years old when she leaves the company as she probably retired rather than switched jobs (e.g. Cheng, Lee, and Shevlin 2016). Our final sample for testing H2a consists of 105,825 subordinate-firm-year observations across 2,501 firms and 31,957 firm-years for the period of 1992-2018.²⁴

We use the following linear probability model to examine the association between subordinate turnover and CEO charity involvement (H2a):²⁵

²² We use ExecuComp to obtain executive compensation, and turn to BoardEx when it is not available on ExecuComp.

²³ We validate this assumption using subordinates who are not listed as an executive in the subsequent two years in ExecuComp, but whose employment history can be found in BoardEx. We find that 70% of these subordinates leave the firm in the year when they drop off from the top executives list in ExecuComp, consistent with our assumption.

²⁴ Our sample period for testing H2-H5 begins with 1992 because ExecuComp starts in 1992.

²⁵ Following prior studies (e.g., Cornelli, Kominek, and Ljungqvist, 2012; Guo and Masulis 2015), we report a linear probability model instead of a non-linear logit or probit model because it is easier to implement fixed effects and

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Turnover_{i,j,t+1} = \beta_0 + \beta_1 Charity_{j,t} + \beta_2 NonCharity_{j,t} + \beta_3 Log\_AT_{j,t} + \beta_4 MTB_{j,t} + \beta_5 Leverage_{j,t} + \beta_6 ROA_{j,t} + \beta_7 SizeAdjRet_{j,t} + \beta_8 BoardCharity_{j,t} + \beta_9 LocalAssoc_{j,t} + \beta_{10} CEOAge_{j,t} + \beta_{11} CEOTenure_{j,t} + \beta_{12} InternalCEO_{j,t} + \beta_{13} CEO\_Leave_{j,t} + \beta_{14} SubordinateAge_{i,t} + \beta_{15} SubordinateTenure_{i,j,t} + \beta_{16} SubordinateAge_{i,t}^2 + \beta_{17} SubordinateTenure_{i,j,t}^2 + \beta_{18} Subor\_PercShrsOwn_{i,j,t} + Industry fixed effects + Year fixed effects + \varepsilon  (2)
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 $Turnover_{i,i,t+1}$ equals one if subordinate i leaves firm j in year t+1 and zero otherwise. Charity_{i,t} (*NonCharity*_{i,t}) equals one if the CEO of firm *j* in year *t* is involved with charitable (non-charitable) organizations and zero otherwise. Following Hayes, Oyer, and Schafer (2006), we include firm, CEO, and subordinate-level controls that may affect subordinate turnover. At the firm-year level, we control for firm size (Log AT), growth (MTB), leverage (Leverage), and firm performance (ROA and SizeAdjRet). We control for prosocial tendencies of a firm's board of directors and local area since they may affect how the firm treats its employees. We measure board of directors' prosocial tendencies as the percentage of board members who are involved with charitable organizations (BoardCharity). Following Bereskin, Campbell, and Kedia (2020), we measure local area's prosocial tendencies as the number of civic and social associations in the county of the firm's headquarters (LocalAssoc). We also control for CEO age (CEOAge), CEO tenure (CEOTenure), whether the CEO is internally promoted or externally hired (InternalCEO), and whether the CEO leaves the firm in year t (CEOLeave). Further, we control for subordinate characteristics that may affect their decisions to leave the firm, including subordinate age (SubordinateAge), tenure at the firm (SubordinateTenure), and percentage of the firm's common stock owned by the subordinate (Subor_PercShrsOwn). Since the relation between a subordinate's mobility and her age and tenure are likely non-linear (Avolio, Waldman, and Mcdaniel, 1990), we add square terms of the subordinate's age and tenure. Finally, we include industry fixed effects

interpret coefficients. As a robustness check, we also estimate this regression with logit specification and find qualitatively similar results.

and cluster standard errors by firm in this and all subsequent regression analyses.

Panel A of Table 3 presents descriptive statistics, which are comparable with prior studies (e.g. Hayes et al., 2006). Panel B reports results from the estimation of equation (2). In Column (1), we use all subordinate-firm-years. The coefficient on *Charity* is insignificant, suggesting prosocial CEOs are not associated with subordinate turnover. One possible reason is that subordinates who are older and closer to retirement have less career mobility, and thus are less likely to leave their firm, regardless of their CEOs' prosocial tendencies. Consistent with this conjecture, we find that among subordinates leaving their current firms, 89.5% of subordinates who are younger than 50 years old join another firm after they leave while only 7% of subordinates aged 50 and above move to a different firm after leaving (untabulated). Therefore, we split our sample into two subsamples of subordinates aged above and below 50.

Column (2) of Table 3 Panel B reports the results for the subsample of subordinates who are aged below 50. The coefficient on *Charity* is significantly negative, consistent with our prediction that subordinates of a prosocial CEO are less likely to leave the firm. Specifically, for executive subordinates below the age of 50, having a prosocial CEO reduces their likelihood of leaving the firm by 1.1%, which is economically meaningful given the average subordinate turnover rate in our sample of 17.5%. In contrast, the coefficient on *NonCharity* is insignificant, which strengthens our inference that the association between *Charity* and executive subordinate turnover is not driven by CEO involvement in general off-the-job activities, but by CEOs' prosocial tendencies. In Column (3), we estimate the same regression on the subsample of subordinates aged 50 and above and find that the coefficient on *Charity* is insignificant.²⁶

Although the results discussed above are consistent with H2a, one alternative explanation

²⁶ A Wald chi-square test shows a significant difference between the coefficients on *Charity* in Columns (2) and (3) $(\chi^2$ -stat = 6.73 with p-value < 0.01), confirming that compared with older subordinates, the turnover of younger subordinates is more likely to be influenced by the CEOs' prosocial tendencies.

is that the negative association between prosocial CEOs and subordinate turnover is driven by underlying firm characteristics. For example, a company with a more friendly corporate culture may be more likely to both hire a prosocial CEO and implement more employee-friendly corporate policies, leading to lower subordinate turnover. To address this concern, we investigate whether a change in CEO prosocial type is associated with a change in subordinate turnover using a sample of firms with CEO turnovers. To the extent that firm characteristics do not change significantly around a CEO turnover, the change in subordinate turnover in this subsample is more likely driven by the change in the CEO's prosocial type. Specifically, we estimate the following regression:

$$Turnover_{i,j,t+1} = \beta_0 + \beta_1 CharityImprove_j + \beta_2 Post_{j,t} + \beta_3 CharityImprove_j \times Post_{j,t} + \sum Controls + Industry fixed effects + Year fixed effects + \varepsilon$$
 (3)

For firm j, $Post_{j,t}$ equals one if year t is after a CEO turnover, and zero otherwise. Since Post can only be defined around one CEO turnover for each firm, we keep firms with only one CEO turnover during our sample period for this analysis. 27 $CharityImprove_j$ equals one for all years of firm j if its CEO turnover involves a replacement of a non-prosocial CEO with a prosocial CEO, and zero otherwise. The coefficient on CharityImprove (β_1) represents the difference in average subordinate turnover before the CEO turnover between firms with CharityImprove equal to one and firms with CharityImprove equal to zero. The coefficient on Post (β_2) captures the difference between the average likelihood of subordinate turnover under the first CEO and that under the successor CEO for all firms with CharityImprove equal to zero. We interact CharityImprove and CEO and CEO turnover for firms with CEO turnover equal to one relative to other firms. If a prosocial CEO is better at retaining subordinates, the likelihood of a subordinate leaving should

²⁷ As a robustness check, we keep only the first CEO turnover for firms with more than one CEO turnover in the turnover sample and our results are qualitatively the same.

decrease more or increase less after the CEO turnover for firms with *CharityImprove* equal to one than for other firms. We thus expect β_3 to be negative (H2a). We include the same controls as those in equation (2) except for *CEO_Leave* as it always equals zero.

Column (4) of Table 3 Panel B presents results from the estimation of equation (3). The coefficient on *Post* is 0.006 and significant, suggesting that on average, executive subordinates are more likely to leave after a CEO turnover for firms with *CharityImprove* equal to zero. However, the coefficient on the interaction term, *Post×CharityImprove*, is -0.009 and significant. This result suggests that the executive subordinate turnover rate around the CEO turnover increases significantly less for firms replacing a non-prosocial CEO with a prosocial CEO than for other firms. Indeed, the net change in subordinate turnover for firms with *CharityImprove* equal to one is negative (0.006-0.009), suggesting that average subordinate turnover decreases after such CEO turnovers, but increases after other types of CEO turnovers (0.006). In sum, this analysis further strengthens our inference that prosocial CEOs improve executive subordinate retention, and that this effect is unlikely to be driven by the underlying firm characteristics.

Turning to control variables, we find that the coefficient on NonCharity is insignificant in Columns (1) – (3). We also find that the coefficient on Leverage is significantly positive, and that the coefficients on ROA and SizeAdjRet are both negative and significant. These results suggest that executive subordinates are more likely to leave firms with higher leverage and lower performance. LocalAssoc is negative and significant in Columns (1) and (3), suggesting that older employees are less likely leave firms that operate in geographical locations with higher prosocial tendencies. CEOTenure and InternalCEO are negatively associated with turnover, suggesting that longer-tenured CEOs and internally promoted CEOs are better able to retain their direct subordinates. Further, we find that CEO_Leave is positively associated with turnover in Column (1) – (3), which is consistent with prior studies and suggests that executive subordinates are more

likely to leave right after their CEO leaves the firm (e.g., Hayes et al., 2006). Turning to subordinate characteristics, age and tenure at the firm are positively and negatively associated with the likelihood of leaving the firm respectively, and these associations are both nonlinear, as indicated by significant coefficients on squared age and squared tenure. Finally, the percentage of subordinates' equity ownership is negatively and significantly associated with their turnover.

Overall, our evidence based on both the full sample and the subsample with CEO turnovers is consistent with subordinates being less likely to leave when working for a prosocial CEO (H2a).

4.2.2. Corporate policies on employee welfare

H2b predicts that prosocial CEOs are more likely to establish corporate policies that take employees' well-being into consideration. We measure firms' policies on employee welfare using data from MSCI ESG KLD STATS, which assesses firms' social performance using a combination of surveys, financial statements, articles in the popular press and academic journals, and government reports.²⁸ For each firm-year, the database assesses and reports strengths and concerns along various dimensions including corporate governance, community, diversity, employee relations, environment, and product. We calculate the KLD score on employee welfare, *Employee_KLD*, using total strengths minus total concerns in KLD's employee relations category where KLD assesses firms' union relations, no-layoff policy, cash profit-sharing plans, employee involvement, retirement benefits, policies on employee health and safety, professional development, etc. Our sample for testing H2b starts in 1992 and ends in 2016, which is the most recent year with data available in the MSCI ESG KLD STATS database. After removing firm-years that do not have KLD data, we are left with 19,434 firm-years. We estimate the following OLS regression to test H2b:

²⁸ Starting from 1991, KLD rated approximately 650 firms every year, comprising all firms in the S&P 500 and Domini 400 Social SM Index. During 2001 to 2002, KLD expanded its coverage to the largest 1,000 U.S. companies by market capitalization. Since 2003, it has covered the largest 3,000 U.S. firms based on market capitalization.

 $Employee_KLD_{j,t+1} = \beta_0 + \beta_1 Charity_{j,t} + \beta_2 NonCharity_{j,t} + \beta_3 Log_AT_{j,t} + \beta_4 MTB_{j,t} + \beta_5 Leverage_{j,t} + \beta_6 ROA_{j,t} + \beta_7 FirmAge_{j,t} + \beta_8 Cash_{j,t} + \beta_9 CFO_{j,t} + \beta_{10} RD_{j,t} + \beta_{11} Advertising_{j,t} + \beta_{12} BoardCharity_{j,t} + \beta_{13} LocalAssoc_{j,t} + Industry fixed effects + Year fixed effects + \varepsilon (4)$

We expect the coefficient on *Charity* to be significantly positive (H2b). We control for firm characteristics that likely affect a firm's overall CSR performance since policies on employee welfare is one dimension of CSR activities. Specifically, we control for firm size (*Log_AT*) since larger firms have more resources for CSR activities. We include growth (*MTB*), leverage (*Leverage*), and firm age (*FirmAge*) because stable and mature firms with lower risk are generally more likely to make CSR expenditures (Orlitzky and Benjamin, 2001). We control for firm performance (*ROA*), cash holdings (*Cash*), and cash flow from operations (*CFO*) as performance and cash flow affect both a company's ability and pressure from the community to conduct CSR activities (Campbell, 2007; Lys, Naughton, and Wang, 2015). We also include R&D (*RD*) and advertising expenditures (*Advertising*) since firms with a greater amount of such expenditures tend to invest more in CSR activities (McWilliams and Siegel, 2000; Wieser, 2005). Finally, we include *BoardCharity* and *LocalAssoc* to control for board and local area's prosocial tendencies.

Table 4 presents the results from estimating equation (4). In Column (1), consistent with H2b, we find that the coefficient on *Charity* is 0.070 and significant (p<0.001). Economically, relative to non-prosocial CEOs, prosocial CEOs improve a firm's employee relations KLD rating by 0.070 on average, which is a meaningful improvement when benchmarked against the mean *Employee_KLD* of 0.062 with standard deviation of 1.183 for our sample (untabulated). This result suggests that prosocial CEOs have a positive effect on corporate employee policies. In contrast, the coefficient on *NonCharity* is insignificant, suggesting that CEOs' participation in general off-the-job activities is not associated with their corporate employee policies.

Similar to the subordinate turnover analyses, to address the concern that the result in

Column (1) is driven by underlying firm characteristics, we focus on the subsample of firm-years around CEO turnovers in Column (2). While the coefficient on *Post* is negative, the coefficient on *CharityImprove*×*Post* is significantly positive, suggesting that employee welfare decreases less when a prosocial CEO replaces a non-prosocial CEO than other types of CEO replacements.

Finally, the association between control variables and employee KLD scores are generally consistent with our expectations. We find that the coefficients on *Log_AT* and *FirmAge* are positive and significant, consistent with larger firms and more mature firms having more resources to invest in employee welfare and therefore achieving better employee CSR ratings. We also find that firms with lower advertising expenditures have higher employee CSR ratings.

Overall, the above results suggest that prosocial CEOs are associated lower executive subordinate turnover, and are more willing to invest in policies to improve employee welfare.

4.3. Testing H3 – Prosocial CEOs and customer satisfaction

H3 predicts that having a prosocial CEO is positively associated with customer satisfaction. We obtain customer satisfaction data from the American Customer Satisfaction Index (ACSI) database which covers more than 400 foreign and domestic firms with significant U.S. market share from all major economic sectors. Every year, the ACSI surveys approximately 50,000 customers about the products and services they use the most and estimates firm-level customer satisfaction scores on a scale of 0-100. The ACSI score, our measure of customer satisfaction (*Cust_Satis*), is a widely used measure of customer satisfaction by academics (e.g. Luo and Bhattacharya 2006; Malshe and Agarwal 2015; Lim, Tuli, and Grewal, 2020). After merging ACSI data with data on CEO and firm characteristics, we are left with 1,206 firm-year observations from 1995 to 2018. To test H3, we estimate the following OLS regression:

 $\begin{aligned} & \textit{Cust_Satis}_{j,t+1} = \beta_0 + \beta_1 \textit{Charity}_{j,t} + \beta_2 \textit{NonCharity}_{j,t} + \beta_3 \textit{CEOTenure}_{j,t} + \beta_4 \textit{Log_AT}_{j,t} + \\ & \beta_5 \textit{MTB}_{j,t} + \beta_6 \textit{Leverage}_{j,t} + \beta_7 \textit{ROA}_{j,t} + \beta_8 \textit{Advertising}_{j,t} + \beta_9 \textit{RevenueGrowth}_{j,t} + \\ & \beta_{10} \textit{BoardCharity}_{j,t} + \beta_{11} \textit{LocalAssoc}_{j,t} + \textit{Industry fixed effects} + \textit{Year fixed effects} + \varepsilon \end{aligned} \tag{5}$

We control for CEO tenure (*CEOTenure*) as a CEO's experience is associated with her market knowledge (Hambrick 2007). We also control for firm size (*Log_AT*), return on assets (*ROA*), leverage (*Leverage*), growth (*MTB*), advertising expenditure (*Advertising*), and revenue growth (*RevenueGrowth*), as firm resources and performance could affect investment in customer relations (Luo, Kanuri, and Andrew, 2014).

Table 5 presents the results from estimating equation (4). In Column (1), consistent with H3, we find that the coefficient on *Charity* is 0.533 and significant (p<0.05). This result indicates that having a prosocial CEO is positively associated with customer satisfaction in the next year. Meanwhile, the coefficient on NonCharity is insignificant, suggesting that CEO participation in non-charity activities is not associated with customer satisfaction. In Column (2), when we use the subsample of firms with CEO turnovers, the coefficient on *Post* is negative, but the coefficient on Post×CharityImprove is still positive and significant. This result shows that customer satisfaction decreases less when a prosocial CEO replaces a non-prosocial CEO than when there are other types of CEO replacements, which confirms our inference from Column (1). However, the magnitude of the results in both columns (0.533 and 1.521) is not economically significant when benchmarked against the sample average customer satisfaction score of 76.67 (untabulated). Therefore, our results suggest that prosocial CEOs have a positive, but economically small, impact on customer satisfaction. As for control variables, firms with higher leverage (Leverage), better performance (ROA), and more advertising expenditure (Advertising) tend to have higher customer satisfaction, consistent with prior studies (e.g., Luo, Kanuri, and Andrews, 2014).

4.4. Testing H4 – Prosocial CEOs and overall CSR policies

H4 predicts that prosocial CEOs are more willing to channel firm resources toward CSR activities, and therefore their firms will have better corporate social performance. Similar to H2b, we measure CSR performance using data from MSCI ESG KLD STATS and construct our

dependent variable, *Total_KLD*, as the difference between total strengths minus total concerns in KLD's rating on corporate governance, community, diversity, employee relations, environment, and product.²⁹ We follow the same regression specification as equation (4), but replace the dependent variable with *Total_KLD*.

Table 6 presents the results from this analysis. In Column (1), consistent with H4, we find that the coefficient on *Charity* is positive (0.209) and significant (p<0.01), suggesting that firms with prosocial CEOs have 0.209 higher total KLD scores on average. These magnitudes are economically considerable since the average *Total_KLD* is 0.041 with standard deviation of 2.314 for all firm-years in our sample. In Column (2), when we analyze changes in KLD scores around CEO turnovers, the coefficient on *Post×CharityImprove* is positive and significant (0.137 with p<0.1).³⁰ These results provide support for H4 that firms with prosocial CEOs are more likely to engage in CSR activities than other firms, and that this association is not driven by the underlying firm characteristics.³¹

In terms of control variables, we find that the coefficient on *NonCharity* in Column (1) is positive and significant, suggesting CEOs' participation in other off-the-job activities is also associated with higher CSR ratings. In addition, the coefficients on *Log_AT*, *FirmAge*, *Cash* and *RD* are all positive and significant in both columns, which is generally consistent with what we observe in Table 4. We also find that past firm performance is negatively associated with CSR

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²⁹ KLD has also assessed firms in the areas of human rights and firearms since 2002. Since these two dimensions are not available before 2002, we exclude them when constructing total KLD scores. In addition, KLD does not evaluate the strength, but only the concerns in exclusionary screen categories including alcohol, gambling, military contracting, nuclear power, and tobacco. We do not consider these exclusionary categories when calculating KLD scores because CEOs have less discretion on influencing these categories.

³⁰ When we exclude *Employee_KLD* from *Total_KLD*, we continue to find significantly positive coefficients on *Charity* and *Post×CharityImprove*, indicating that prosocial CEOs are not only more likely to implement employee friendly policies, but also other CSR activities.

³¹ As a robustness check, we measure CSR using ratings on firms' environmental, social and governance (ESG) performance provided by Sustainalytics Company from 2009 to 2018. We replace KLD score in equation (4) with: a) a firm's total ESG score, an aggregate of social, environment, and governance scores, or b) a firm's social score. We continue to find a positive and significant correlation between prosocial CEOs and firm ESG scores.

ratings (the coefficient on *ROA* is negative).³² In addition, the positive and significant coefficients on *BoardCharity* and *LocalAssoc* suggest that board and local area's prosocial tendencies are positively associated with CSR ratings, which is consistent with prior literature (e.g., Bereskin, Campbell, and Kedia, 2020).

4.5. Testing H5 – Prosocial CEOs and firm value

To test H5, we use all firm-years with available data on CEOs' charity involvement as well as firm value and performance from year 1992 to 2018. We estimate the following model:

Value_{j,t+1} or Performance_{j,t+1} = $\beta_0 + \beta_1 Charity_{j,t} + \beta_2 NonCharity_{j,t} + \beta_3 Log_A T_{j,t} + \beta_4 MTB_{j,t} + \beta_5 Leverage + \beta_6 RD_{j,t} + \beta_7 CAR_{j,t} + \beta_8 ReturnVolatility_{j,t} + \beta_9 Num_Analysts_{j,t} + \beta_{10} Instown_Perc_{j,t} + \beta_{11} BoardCharity_{j,t} + \beta_{12} LocalAssoc_{j,t} + \beta_{13} Value_{j,t}$ or Performance_{j,t} + Industry fixed effects + Year fixed effects + ε (6) where Value represents Tobin's Q (TobinsQ) and Performance represents annual size-adjusted returns (SizeAdjRet) or ROA (ROA). We control for firm size (Log_AT), growth (MTB), leverage (Leverage), R&D expenditure (RD), return volatility during the year (ReturnVolatility), the number of analysts following the firm ($Num_Analysts$), and percentage of institutional ownership ($Instown_perc$). BoardCharity and LocalAssoc are as previously defined. When TobinsQ and ROA are the dependent variable, we also control for cumulative market-adjusted stock return (CAR). In addition, we control for mean reversion of the dependent variables by including the corresponding dependent variable in year t.

Results from the estimation of equation (6) are presented in Table 7. In Panel A, we use all firm-years with available data and find that the coefficient on *Charity* is positive and significant across all three columns. These results suggest that having a prosocial CEO is positively associated with firm value and performance. However, the results are weaker when we focus on firms with

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³² When we regress *Total_KLD* on *ROA* with industry fixed effects and year fixed effects, the association is significantly positive. The negative coefficient on *ROA* in Table 6 may be due to the correlations between ROA and other control variables such as *Log AT* and *CFO*.

CEO turnovers (Panel B). The coefficient on *Post×CharityImprove* is significantly positive (p<0.05) only for *TobinsQ*, suggesting that there is more improvement in Tobin's Q when a prosocial CEO replaces a non-prosocial CEO than when there are other types of CEO replacements. Overall, we find consistent evidence that having a prosocial CEO is positively associated with firm value, but weaker evidence for annual firm performance.

In sum, the results of our analyses are consistent with there being positive career outcomes for prosocial individuals. The results also support the notion that prosocial CEOs experience lower subordinate turnover, positively influence both corporate social performance and customer satisfaction, and increase firm value.³³

5. Additional Analyses and Robustness Tests

5.1 Path analysis of how prosocial CEOs affect firm value

Our evidence suggests that prosocial CEOs have effects on both corporate policies and firm value. Because corporate policies could affect firm value, in this section, we perform a path analysis to examine whether prosocial CEOs influence firm values directly and/or indirectly through corporate policies. We estimate a structural equation model of prosocial CEOs' direct effect on firm value (*TobinsQ*) as well as their indirect effect through corporate policies on employee welfare (*Employee_KLD*), customer satisfaction (*Cus_Satis*), and overall CSR activities (*Total_KLD*). The structural equation model includes a regression of *TobinsQ* on *Charity* and mediating variables that capture corporate polices (*Employee_KLD*, *Cus_Satis*, and *Total_KLD*) and regressions of these mediating variables on *Charity*.³⁴

Table 8 reports the results of the path analysis. The direct coefficients of *Charity* on

³⁴ All control variables in equation (6) are included in the regression of *TobinsQ* on *Charity* and all control variables in equation (4) (equation (5)) are included in the regression of *Cus_Satis* (*Employee_KLD* and *Total_KLD*) on *Charity*.

³³ As a robustness check, we use the number of charitable organizations and the number of non-charitable organizations that a CEO is involved in to replace *Charity* and *NonCharity*, respectively. Apart from customer satisfaction, all of our results continue to hold.

TobinsQ are significantly positive in all three columns, indicating that prosocial CEOs have a direct effect on firm value that is not related to corporate policies we examine. The indirect effect of Charity on TobinsQ is product of the effect of Charity on the mediating variables and the effect of the mediating variables on TobinsQ. The significance of the indirect effect is estimated using the Sobel (1982) test statistic. We find that Charity has significant indirect effects on TobinsQ through Employee_KLD and Total_KLD, but not through Cus_Satis, suggesting that prosocial CEOs have a significant indirect effect on firm value through impacting firms' CSR policies. Taken together, these results suggest that prosocial CEOs affect firm value both directly and indirectly through CSR initiatives.

5.2 Robustness tests for prosocial CEOs' influence on corporate policy

Results from our main analyses, especially those based on the sample of CEO turnovers, suggest that prosocial CEOs influence corporate policies and performance. However, an alternative explanation is that some underlying changes in firms may cause them both to hire prosocial CEOs and to change certain corporate policies (e.g., a firm adding more prosocial directors may start to conduct more CSR activities and hire a prosocial CEO). To rule out this alternative, we conduct two additional analyses.

First, we investigate whether firms experience significant changes in performance and percentage of prosocial directors in the period leading up to CEO hiring decisions. In untabulated analyses, we do not find evidence that changes in Tobin's Q, size-adjusted returns, ROA and the percentage of prosocial directors are significantly different between firms that replace a non-prosocial CEO with a prosocial CEO and firms with other types of CEO turnovers in the year leading up to the CEO turnover. Therefore, the changes in corporate policies that we document do not appear to be driven by abnormal changes in performance or proportion of prosocial directors.

Second, under the above explanation, we do not expect to find a precise overlap between

the arrival of the new prosocial CEO and corporate policy changes. In fact, one might expect that some corporate policy changes precede the arrival of the new prosocial CEO at least for some firms. In contrast, if a prosocial CEO plays an active role in changing corporate policies, these changes will only happen *after* the CEO is hired. To empirically test these explanations, we follow Bertrand and Schoar (2003) and perform a placebo test. For firms experiencing non-prosocial to prosocial CEO turnovers, we assume that the new CEO joined the firm two years *before* the actual turnover date and left the firm at the time they actually joined the company.³⁵ We then re-run all our turnover analyses but do not find significant results in any of the tests (untabulated). These results confirm that the changes we observe in corporate policies happen not before, but only after the new prosocial CEO joins the firm, suggesting that prosocial CEOs play an active role in implementing these changes.

5.3 Individual prosocial behavior before becoming CEOs

Our treatment variable, *Charity*, is time invariant as BoardEx generally does not provide the time when an individual joins and leaves a charitable organization. Our results are thus subject to concerns over reverse causality. For example, an individual who is capable and becomes a CEO at a young age may be more likely to be invited to join a charitable organization *after* she becomes a CEO; or a CEO who joins a firm on the path of improving stakeholder-related policies is more likely to be subsequently invited to join a charitable organization. In this section, we address this concern by examining a subsample of individuals who were involved with charitable organizations *before* becoming a CEO. We conduct this analysis by using BoardEx data downloaded in 2013, even though our analyses so far are based on data downloaded in 2019. Using the 2013 BoardEx data in conjunction with our main dataset, we re-

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³⁵ We find similar results when we assume that the new CEO joined the firm three years before the actual turnover date.

define prosocial CEOs as individuals who: (1) are included in both versions of BoardEx, (2) are involved with at least one charitable organization but are not CEOs in the 2013 version of BoardEx, and (3) become CEOs after 2013. This methodology ensures that the individuals defined as prosocial started their involvement with charitable organizations *before* becoming a CEO. Table 9 presents the results from this analysis. While the sample sizes for these tests are reduced by 48% from the samples in our main analyses, on average, we continue to find that prosocial individuals become CEOs earlier (Panel A), prosocial CEOs treat employees and customers better, and firms with prosocial CEOs are more social responsible and perform better (Panel B).

In our main analyses, we do not investigate whether charitable organization involvement increases the likelihood of an individual becoming a CEO because individuals may be more likely to be invited to join a charitable organization once she becomes a CEO, thus raising reverse causality concerns. We conduct an additional analysis by using the 2013 version of BoardEx to identify an individual's prosocial tendencies and examine her likelihood of becoming a CEO after 2013 using the 2019 version of BoardEx. We find that prosocial individuals are more likely to subsequently become a CEO (not tabulated). In sum, these results suggest that a prosocial individual is more likely to both become a CEO and become a CEO earlier.

5.4 Prosocial behavior and executive careers

While we focus on CEOs in this study, it is also interesting to examine whether prosocial behavior is associated with other non-CEO executive career paths in general. Thus, we also examine the time taken for an individual to reach a non-CEO position in the top management team. We focus on the most common non-CEO top management positions: CFO, COO, and President. We identify the first year that individuals held these titles based on their employment history from BoardEx. We run a similar analysis to H1, but replace the dependent variable as the number of

years that an individual takes to be first named as a non-CEO top management team member (denoted as *TimeToTMT* for any firm and *TimeToTMT_Public* for a public firm). In Table 10, we find that the coefficients on *Charity* in both columns are negative and significant, suggesting that prosocial individuals take a shorter time to reach a non-CEO top executive position.

6. Conclusion

This study examines the relations between CEOs' prosocial behavior and their career and corporate policies. We develop a new measure of individual prosocial behavior using their off-the-job involvement with charitable organizations. We first show that individual prosocial behavior is negatively associated with the time taken to be promoted to the position of CEO, suggesting that individuals' prosocial tendencies benefit their career advancement. We then examine the effects of having a prosocial CEO on a wide range of stakeholders, including company employees, customers, shareholders, and the society. We find that prosocial CEOs are associated with more stable top management teams, more satisfied customers, and more socially responsible firm decisions. We also document that prosocial CEOs improve firm value, both directly and indirectly through changing corporate policies.

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Appendix. Variable Definitions

Variable	Definition	Database
Advertising	Advertising expense scaled by average total assets for the fiscal year.	Compustat
Auditor	An indicator variable equal to one if individual worked as an auditor before, and zero otherwise. We identify individuals with auditor experience if any of their prior role names contain the word "auditor".	BoardEx
Banking	An indicator variable equal to one if individual has worked in the banking industry before, and zero otherwise. We identify individuals with banking experience if any of their prior roles are in industries that contain the word "bank".	BoardEx
BoardCharity	The percentage of a firm's board members that are involved with charities. Charities are organizations defined as "Charitable Organizations" by the IRS.	BoardEx
CAR	Cumulative abnormal return over the 12 months prior to the end of the fiscal year. Calculated as buy-hold stock return adjusted by the CRSP value-weighted return over the same period.	CRSP
Cash	Cash at the end of the fiscal year scaled by average total assets for the fiscal year.	Compustat
CEO_Leave	An indicator variable equal to one if the CEO leaves the firm in that fiscal year, and zero otherwise.	BoardEx, Execucomp
CEOAge	CEO's age.	BoardEx
CEOTenure	Number of years the CEO has been the CEO of the firm at the end of the fiscal year.	BoardEx
CFO	Cash flow from operations scaled by average total assets for the fiscal year.	Compustat
Charity	An indicator variable equal to one if the CEO has been involved with any charities, and zero otherwise. Charities are organizations defined as "Charitable Organizations" by the IRS.	Combination of IRS and BoardEx
CharityImprove	An indicator variable. For a given CEO turnover event, if a charitable CEO replaces a non-charitable CEO, this variable equals one for all the years when both CEOs are in position. For the other types of CEO turnovers, this variable equals zero for all the years when both CEOs are in position.	Combination of IRS and BoardEx
Consultant	An indicator variable equal to one if individual has worked as a management consultant before, and zero otherwise. We identify individuals with consultant experience if any of their prior role names contain the word "consultant".	BoardEx
CPA	An indicator variable equal to one if individual has a CPA, and zero otherwise. We identify individuals with a CPA if any of their qualifications contain "cpa", "chartered public accountant", "chartered accountant", "certified public accountant", or "certified accountant".	BoardEx

Cust_Satis	Most recent annual customer satisfaction score before the end of the firm's fiscal year, as measured by the American Customer Satisfaction Index.	ACSI
Employee_KLD	Net score of KLD ratings on the firm's employee relations performance, measured as total strengths minus total concerns in the KLD employee relations category.	MSCI ESG KLD STATS
FirmAge	Age of the firm calculated using the Field-Ritter dataset of founding dates.	Field-Ritter dataset
Grad_Law	An indicator variable equal to one if individual has a juris doctorate degree, and zero otherwise. We identify individuals with a juris doctorate if any of their qualifications contain "jd" or "juris doctor".	BoardEx
Instown_Perc	Percentage of shares in the firm held by institutional shareholders at the end of fiscal year.	Thomson Reuters 13F
InternalCEO	An indicator variable equal to one if the CEO was promoted internally, and zero otherwise.	BoardEx
Investment	An indicator variable equal to one if the individual worked in investment firms before, and zero otherwise. We define investment firms as firms classified by BoardEx as "investment companies," "private equity," or "speciality and other finance".	BoardEx
Legal	An indicator variable equal to one if the individual has worked in the legal industry before, and zero otherwise. We identify individuals with legal experience if any of their prior roles are in industries that contain the word "legal" or "law".	BoardEx
Leverage	Total liabilities divided by total assets at the end of fiscal year.	Compustat
LocalAssoc	Density of social and civic associations in the county of the firm's headquarters. Firm counties are identified using Compustat ZIP codes. The total number of associations per county is scaled by the number of association categories in the dataset for that year and by the population of the county (measured per 10,000 people). For years where social and civic associations data is unavailable, we obtain the data from the closest year for which the data is available.	Northeast Regional Center for Rural Development ³⁶
Log_AT	Natural logarithm of total assets at the end of fiscal year.	Compustat
Log_Network	Natural logarithm of (1+ <i>Network</i>). <i>Network</i> is an individual's total number of social connections via education, working experience, and other activities as listed in the BoardEx network files before her first becoming a CEO.	BoardEx
MBA	An indicator variable equal to one if individual has an MBA, and zero otherwise. We identify individuals with an MBA if any of their qualifications contain "mba" or "masters of business admin".	BoardEx

 $^{^{36}}$ The dataset is publicly accessible at http://aese.psu.edu/nercrd/community/social-capital-resources.

MTB	The ratio of market value of equity to book value of equity at the end of the fiscal year.	Compustat
NonCharity	An indicator variable equal to one if the CEO is involved in any non-charities, and zero otherwise. Non-charities are organizations that are not defined as "Charitable Organizations" by the IRS.	Combination of IRS and BoardEx
Num_Analysts	Number of analysts following the firm based on the most recent consensus estimate at the end of the fiscal year.	IBES
Post	An indicator variable equal to one if the year is after a CEO turnover, and zero otherwise.	
PriorJobs	The principal component of <i>PriorFirms</i> , <i>PriorIndustries</i> , and <i>PriorPositions</i> .	BoardEx
PriorIndustry	Number of other firms in which the individual was employed before her first becoming a CEO.	BoardEx
PriorFirms	Number of other industries the individual worked in before her first becoming a CEO.	BoardEx
PriorPositions	Number of positions the individual held before her first becoming a CEO.	BoardEx
RD	R&D expenditure divided by average total assets for the fiscal year.	Compustat
ReturnVolatility	Standard deviation of raw daily returns for the firm adjusted for CRSP value-weighted returns in the 12 months prior to the end of the fiscal year.	CRSP
ROA	Income before extraordinary items divided by average total assets for the fiscal year.	Compustat
RevenueGrowth	Annual change in total revenue divided by total revenue in the previous year.	Compustat
SizeAdjRet	Raw stock returns for the firm calculated over the 12 months prior to the end of the fiscal year, adjusted for the average return of all firms in the same size decile. Size deciles are formed at the end of each fiscal year.	CRSP, Compustat
Subor_PercShrsOwn	Percentage of the firm's shares owned by the subordinate.	Execucomp
SubordinateAge	Subordinate's age.	BoardEx
SubordinateTenure	Number of years the subordinate has been employed by the current firm.	BoardEx
TimeToCEO	Number of years between the start of an individual's career and her first becoming a CEO. The start of an individual's career is defined as the year in which she was 24 years of age.	BoardEx
TimeToTMT	Number of years between the start of an individual's career and her first becoming a top executive. The start of an individual's career is defined as the year in which she was 24 years of age.	BoardEx
Tobins Q	The market value of assets (measured as total assets plus total market capitalization, minus total common equity, minus deferred taxes on the balance sheet), divided by the book value of assets at the end of the fiscal year.	Compustat

Total_KLD	Net score of corporate social performance of the firm, measured as total strengths minus total concerns in five social rating categories of KLD ratings data: corporate governance, community, diversity, employee relations, environment, and product.	MSCI ESG KLD STATS
Turnover	An indicator variable equal to one if the subordinate leaves the firm in that fiscal year, and zero otherwise.	BoardEx
Woman	An indicator variable equal to one if the individual is a woman, and zero otherwise.	BoardEx

Table 1. Descriptive Statistics

This table presents descriptive statistics for the sample used in testing H1. The sample includes 41,205 individuals who first became CEOs from 1950 to 2019. Among these executives, 3,548 also became CEOs of public firms during the sample period. Panel A reports the mean and median of all variables for these individuals and public firms. Panel B presents the Pearson (above the diagonal) and Spearman (below the diagonal) correlations among all the variables. Correlations significant at the 10% level are marked in bold. Definitions of all variables are reported in Appendix.

Panel A: Individual descriptive statistics

Variable	N	Mean	Std Dev	P25	Median	P75
Charity	41,205	0.282	0.450	0.000	0.000	1.000
NonCharity	41,205	0.561	0.496	0.000	1.000	1.000
TimeToCEO (Any firm)	41,205	22.160	9.351	16.000	22.000	29.000
TimeToCEO (Public Firm)	3,548	26.285	7.295	21.000	26.000	31.000
Woman	41,205	0.055	0.228	0.000	0.000	0.000
MBA	41,205	0.260	0.439	0.000	0.000	1.000
Grad_Law	41,205	0.057	0.232	0.000	0.000	0.000
CPA	41,205	0.065	0.247	0.000	0.000	0.000
Auditor	41,205	0.018	0.132	0.000	0.000	0.000
Consultant	41,205	0.126	0.331	0.000	0.000	0.000
Banking	41,205	0.114	0.317	0.000	0.000	0.000
Legal	41,205	0.021	0.144	0.000	0.000	0.000
Investment	41,205	0.141	0.348	0.000	0.000	0.000
PriorJobs	41,205	-0.067	0.851	-0.731	-0.218	0.218
PriorIndustry	41,205	1.903	0.854	1.000	2.000	2.000
PriorFirms	41,205	4.652	3.536	2.000	4.000	6.000
PriorPositions	41,205	5.090	2.765	3.000	5.000	6.000
Log_Network	41,205	5.364	1.694	4.290	5.638	6.639
Log_AT	3,548	6.133	2.251	4.486	6.139	7.705
MTB	3,548	3.121	5.847	1.111	1.975	3.666
Leverage	3,548	0.583	2.482	0.000	0.202	0.722

Table 1. Descriptive Statistics (Cont.)

Panel B: Pearson (above the diagonal) and Spearman (below the diagonal) correlation matrix

Variable	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
[1] TimeToCEO (Any firm)		0.769	0.022	0.037	0.009	-0.042	-0.004	0.028	-0.008	-0.005	0.003	-0.013	-0.093	0.247	-0.050	0.129	-0.017	0.064
[2] TimeToCEO (Public firm)	0.758		0.061	0.067	-0.011	-0.038	-0.023	-0.006	-0.029	0.032	0.022	-0.031	-0.058	0.066	-0.139	0.086	-0.047	0.043
[3] Charity	0.016	0.061		0.372	0.088	0.040	0.056	-0.023	-0.018	-0.033	0.093	0.032	0.085	0.149	0.137	0.232	0.038	0.085
[4] NonCharity	0.031	0.065	0.372		0.061	0.033	0.071	-0.004	0.016	-0.024	0.094	0.045	0.103	0.157	0.128	0.297	0.029	0.119
[5] Woman	0.010	-0.015	0.088	0.061		-0.004	0.013	-0.002	0.014	0.004	0.029	0.015	-0.006	0.078	0.041	0.011	-0.010	-0.022
[6] MBA	-0.036	-0.037	0.040	0.033	-0.004		-0.114	-0.019	-0.002	0.032	0.036	-0.079	0.050	0.097	0.260	0.065	0.025	0.049
[7] Grad_Law	-0.002	-0.022	0.056	0.071	0.013	-0.114		-0.034	-0.038	-0.017	0.004	0.534	0.032	0.079	0.079	0.030	-0.005	0.002
[8] CPA	0.029	-0.009	-0.023	-0.004	-0.002	-0.019	-0.034		0.313	0.022	0.007	-0.020	-0.013	-0.053	-0.061	0.000	-0.023	0.027
[9] Auditor	-0.006	-0.027	-0.018	0.016	0.014	-0.002	-0.038	0.313		0.015	0.000	-0.021	0.013	0.014	-0.006	0.021	-0.012	0.014
[10] Consultant	-0.001	0.036	-0.033	-0.024	0.004	0.032	-0.017	0.022	0.015		-0.016	-0.006	0.004	0.045	0.038	-0.111	0.008	-0.055
[11] Banking	-0.002	0.018	0.093	0.094	0.029	0.036	0.004	0.007	0.000	-0.016		0.005	0.127	0.082	0.063	0.134	-0.041	0.076
[12] Legal	-0.009	-0.029	0.032	0.045	0.015	-0.079	0.534	-0.020	-0.021	-0.006	0.005		0.017	0.084	0.068	0.018	0.000	0.001
[13] Investment	-0.089	-0.054	0.085	0.103	-0.006	0.050	0.032	-0.013	0.013	0.004	0.127	0.017		0.132	0.150	0.159	-0.034	0.073
[14] PriorJobs	0.262	0.088	0.159	0.159	0.083	0.098	0.086	-0.053	0.008	0.047	0.088	0.093	0.150		0.416	0.192	0.033	0.054
[15] Log_Network	-0.026	-0.130	0.146	0.143	0.043	0.250	0.086	-0.045	0.003	0.034	0.062	0.067	0.147	0.408		0.170	0.074	0.021
[16] Log_AT	0.116	0.082	0.242	0.296	0.013	0.067	0.030	-0.002	0.020	-0.108	0.146	0.020	0.161	0.195	0.198		-0.033	0.452
[17] MTB	-0.023	-0.031	0.004	0.005	-0.011	0.001	-0.004	-0.005	-0.006	0.012	-0.027	0.000	-0.011	0.003	0.021	-0.085		0.161
[18] Leverage	0.011	-0.001	0.000	0.025	-0.019	0.020	-0.009	0.016	0.016	-0.004	0.067	0.003	0.061	0.025	0.008	0.147	0.425	

Table 2. Regression Results of Time Taken to be Promoted to CEO

This table presents results from OLS regressions of the time taken to be promoted to a CEO on charity involvement. The sample consists of 41,205 individuals who became CEOs and 3,548 individuals who became CEOs of public firms from 1950 to 2019. *Charity* is an indicator variable equal to one if the individual is involved in charitable organizations, and zero otherwise. The definitions of all other variables are reported in the Appendix. *t*-statistics are reported in brackets. Industry and career start year fixed effects are included. Significance at the 10%, 5%, and 1% level are denoted *, ***, and ****, respectively.

	TimeToCEO (Any firm)	TimeToCEO (Public Firm)
	(1)	(2)
Charity	-1.398	-1.038
	[-14.77]***	[-5.48]***
NonCharity	-1.807	-1.287
	[-20.95]***	[-7.38]***
Woman	2.271	0.977
	[13.49]***	[2.84]***
MBA	-0.261	-0.071
	[-2.91]***	[-0.41]
Grad_Law	0.131	-0.122
_	[0.70]	[-0.33]
CPA	1.403	0.694
	[8.70]***	[2.56]**
Auditor	0.777	0.419
	[2.57]**	[0.84]
Consultant	-0.734	-0.500
	[-6.36]***	[-2.11]**
Banking	-0.747	-1.079
G	[-5.75]***	[-2.91]***
Legal	0.471	0.276
	[1.57]	[0.53]
Investment	-2.141	-1.628
	[-18.39]***	[-6.49]***
PriorJobs	1.415	1.239
	[30.13]***	[9.53]***
Log_Network	0.582	0.149
6	[22.72]***	[2.43]**
Log_AT	[==]	0.581
8		[14.21]***
MTB		-0.058
		[-3.83]***
Leverage		0.091
zeverage		[2.52]**
Intercept	20.842	23.389
	[150.12]***	[60.55]***
Industry fixed effects	Yes	Yes
Start-year fixed effects	Yes	Yes
N	41,205	3,548
Adj. R^2	32.3%	62.0%

Table 3. Executive Subordinate Turnover Analysis

This table presents results for analyses of H2. The sample includes 105,825 subordinate-firm-year observations across 2,501 firms and 31,957 firm-years for the period of 1992-2018. Panel A presents descriptive statistics for all the variables at the subordinate-firm-year level. Panel B presents results from OLS regressions of executive subordinate turnover on CEO charity involvement. The main dependent variable, *Turnover*, equals one if the subordinate leaves the firm in year t+1, and zero otherwise. The main independent variable, *Charity*, equals one if the CEO of the firm in year t is involved in charitable organizations, and zero otherwise. The definitions of all other independent variables are reported in Appendix. In Panel B, Column (1) - (3) reports regression results using all subordinates, subordinates younger than 50 years old, and subordinates older than 49 years old, respectively. In Column (4), the sample includes only subordinates younger than 50 years old in the firm-years before and after a CEO turnover. Standard errors are clustered at the firm level, and t-statistics are reported in the brackets. Industry and year fixed effects are included. This panel also reports Wald chi-square tests on the difference between coefficients on *Charity* in Column (2) and (3). Significance at the 10%, 5%, and 1% level is denoted *, **, and ***, respectively.

Panel A: Descriptive statistics for subordinate turnover analysis

Variable	Mean	Std Dev	P25	Median	P75
Turnover	0.175	0.380	0.000	0.000	0.000
Charity	0.532	0.499	0.000	1.000	1.000
NonCharity	0.787	0.409	1.000	1.000	1.000
Log_AT	7.442	1.668	6.230	7.306	8.525
MTB	3.413	3.538	1.566	2.380	3.845
Leverage	0.515	0.209	0.363	0.525	0.665
ROA	0.048	0.094	0.019	0.052	0.092
SizeAdjRet	0.098	0.508	-0.183	0.022	0.258
BoardCharity	0.431	0.320	0.000	0.500	0.667
LocalAssoc	1.488	0.901	0.521	0.880	1.353
CEOAge	56.104	7.354	51.000	56.000	61.000
CEOTenure	8.101	7.296	3.000	6.000	11.000
InternalCEO	0.639	0.480	0.000	1.000	1.000
CEO_Leave	0.122	0.327	0.000	0.000	0.000
SubordinateAge	51.500	6.898	47.000	51.000	56.000
SubordinateTenure	7.412	9.157	0.000	4.000	12.000
Subor_PercShrsOwn	0.107	0.215	0.001	0.019	0.100
N			105,825		

 Table 3. Executive Subordinate Turnover Analysis (Cont.)

Panel B: Regression results for subordinate turnover

	Dependent Variable = <i>Turnover</i>					
	All subordinates	Subordinates < 50 years old	Subordinates >= 50 years old	Subordinates < 50 years old around CEO Turnovers		
	(1)	(2)	(3)	(4)		
Charity	0.000	-0.011	0.006			
	[0.09]	[-2.13]**	[1.18]			
NonCharity	-0.004	-0.005	-0.004			
	[-0.87]	[-0.74]	[-0.69]			
CharityImprove				-0.005		
				[-0.96]		
Post				0.006		
				[1.89]*		
CharityImprove×Post				-0.009		
				[-2.25]**		
Log_AT	0.000	0.004	-0.001	0.005		
	[0.34]	[2.15]**	[-0.64]	[2.68]***		
MTB	-0.001	-0.002	0.000	-0.001		
	[-1.86]*	[-3.10]***	[-0.47]	[-2.14]**		
Leverage	0.055	0.040	0.059	0.034		
	[4.62]***	[2.58]***	[3.99]***	[2.14]**		
ROA	-0.237	-0.284	-0.217	-0.271		
	[-10.86]***	[-10.39]***	[-7.53]***	[-9.93]***		
SizeAdjRet	-0.034	-0.032	-0.035	-0.029		
	[-12.36]***	[-8.99]***	[-9.42]***	[-8.18]***		
BoardCharity	-0.006	-0.014	-0.004	-0.014		
-	[-0.71]	[-1.34]	[-0.37]	[-1.30]		
LocalAssoc	-0.019	-0.010	-0.023	-0.004		

Diff. between coefficients on Cha	arity	-0.	.017	
$Adj. R^2$	3.9%	3.5%	4.0%	2.6%
N	105,825	38,537	67,288	30,846
Firm clustering	Yes	Yes	Yes	Yes
Year fixed effcets	Yes	Yes	Yes	Yes
Industry fixed effects	Yes	Yes	Yes	Yes
Log_AT	0.000	0.004	-0.001	0.005
	[-19.05]***	[-1.74]*	[-1.89]*	[-2.52]**
Intercept	-1.011	-0.377	-0.390	-0.535
	[-13.58]***	[-7.90]***	[-12.38]***	[-8.10]***
Subor_PercShrsOwn	-0.093	-0.072	-0.105	-0.076
	[15.62]***	[0.09]	[16.80]***	[1.12]
SubordinateTenure ²	0.000	0.000	0.000	0.000
	[-22.26]***	[-1.59]	[-4.85]***	[-2.33]**
SubordinateAge ²	0.000	0.000	0.000	-0.000
2	[-20.72]***	[-3.33]***	[-20.67]***	[-4.16]***
SubordinateTenure	-0.010	-0.003	-0.012	-0.004
	[23.47]***	[2.01]**	[4.07]***	[2.71]***
SubordinateAge	0.047	0.020	0.029	0.027
	[15.66]***	[10.51]***	[13.14]***	
CEO_Leave	0.077	0.074	0.079	
	[-2.08]**	[-2.15]**	[-1.36]	[-1.81]*
InternalCEO	-0.008	-0.011	-0.006	-0.010
	[-5.92]***	[-4.84]***	[-5.01]***	[-2.90]***
CEOTenure	-0.002	-0.002	-0.002	-0.001
	[-0.75]	[0.78]	[-1.08]	[1.15]
CEOAge	0.000	0.000	0.000	0.000
	[-3.05]***	[-1.14]	[-3.03]***	[-0.50]

Diff. between coefficients on *Charity*in columns (2) and (3)

-0.017

[χ 2= -6.73***]

Table 4. Regression Results of Corporate Employee Policies

This table presents results from OLS regressions of firms' CSR scores on the employee category on CEO charity involvement. The sample includes 19,434 firm-years for the period of 1992-2016. *Employee_KLD* is the KLD rating on the firm's employee relations category. *Charity* equals one if the CEO of the firm is involved in charitable organizations, and zero otherwise. The definitions of all other independent variables are reported in Appendix. In Column (2), the sample consists of 14,561 firm-years around CEO turnovers. Standard errors are clustered at the firm level, and *t*-statistics are reported in the brackets. Year and industry fixed effects are included. Significance at the 10%, 5%, and 1% level is denoted *, **, and ***, respectively.

	Dependent Variable = <i>Employee_KLD</i>		
	•	Firm-years around CEO	
	All Firm-years	Turnovers	
	(1)	(2)	
Charity	0.070		
•	[2.67]***		
NonCharity	0.021		
, and the second	[0.77]		
CharityImprove		-0.098	
		[-2.15]**	
Post		-0.072	
		[-1.94]*	
CharityImprove×Post		0.076	
T		[2.01]**	
Log_AT	0.052	0.066	
2082.11	[3.70]***	[4.95]***	
MTB	0.000	-0.000	
	[0.09]	[-1.94]*	
Leverage	0.000	0.000	
Zeverage	[-0.01]	[0.83]	
ROA	-0.041	-0.103	
KO21	[-0.64]	[-1.32]	
FirmAge	0.006	0.005	
Tumage	[2.11]**	[2.20]**	
Cash	0.091	-0.059	
Cush	[0.98]	[-0.72]	
CFO	-0.025	-0.72]	
CFO	[-0.28]	[-0.82]	
RD	0.000	0.000	
KD			
A	[1.85]*	[1.21]	
Advertising	-0.100	-0.049	
D ICI :	[-4.80]***	[-1.89]*	
BoardCharity	-0.011	0.018	
T. 14	[-0.20]	[0.37]	
LocalAssoc	0.055	0.009	
-	[1.10]	[0.20]	
Intercept	-0.319	-0.341	
	[-3.02]***	[-3.25]***	
Industry fixed effects	Yes	Yes	
Year fixed effects	Yes	Yes	

Firm clustering	Yes	Yes
N	19,434	14,561
Adj. R^2	22.8%	26.8%

Table 5. Regression Results of Firm Customer Satisfaction

This table presents results from OLS regressions of firms' ACSI customer satisfaction scores on CEO charity involvement. The sample includes 1,206 firm-years for the period of 1995-2018. *Charity* equals one if the CEO of the firm is involved with charitable organizations, and zero otherwise. The definitions of all other independent variables are reported in Appendix. In Column (2), the sample consists of 726 firm-years around CEO turnovers. Standard errors are clustered at the firm level, and *t*-statistics are reported in the brackets. Year and industry fixed effects are included. Significance at the 10%, 5%, and 1% level is denoted *, **, and ***, respectively.

	Dependent Variable = <i>Cust_Satis</i>		
		Firm-years around CEO	
	All Firm-years	Turnovers	
	(1)	(2)	
Charity	0.533		
•	[2.19]**		
NonCharity	-0.109		
•	[-0.21]		
CharityImprove		-1.619	
· ·		[-2.06]*	
Post		-0.876	
		[-2.16]**	
CharityImprove×Post		1.521	
<i>J</i> 1		[1.75]*	
CEOTenure	0.003	0.049	
	[0.14]	[2.04]*	
Log_AT	-0.941	-0.082	
208211	[-7.25]***	[-0.38]	
MTB	-0.052	-0.036	
	[-1.72]*	[-1.28]	
Leverage	2.786	4.596	
20,0,486	[2.10]**	[3.20]***	
ROA	13.897	18.888	
11011	[5.95]***	[5.68]***	
Advertising	25.277	17.693	
in the results	[3.50]***	[2.10]**	
RevenueGrowth	0.902	-0.037	
nevenue 310 mm	[1.99]**	[-0.09]	
BoardCharity	1.439	0.281	
Boarachartiy	[2.90]***	[0.45]	
LocalAssoc	0.935	3.803	
20000 10500	[1.69]*	[7.39]***	
Intercept	78.637	69.417	
mercepi	[39.77]***	[27.33]***	
Industry fixed effects	Yes	Yes	
Year fixed effects	Yes	Yes	
Firm clustering	Yes	Yes	
N	1,206	726	
Adj. R^2	66.5%	69.2%	

Table 6. Regression Results of Firm Corporate Social Performance

This table presents results from OLS regressions of firms' CSR performance on CEO charity involvement. The sample includes 19,434 firm-years for the period of 1992-2016. *Total_KLD* represents the firm's KLD rating on corporate governance, community, diversity, employee relations, environment, and product categories. *Charity* equals one if the CEO of the firm is involved in charitable organizations and zero otherwise. The definitions of all other independent variables are reported in Appendix. In Column (2), the sample consists only of 14,561 firm-years around CEO turnovers. Standard errors are clustered at the firm level, and *t*-statistics are reported in the brackets. Year and industry fixed effects are both included. Significance at the 10%, 5%, and 1% level is denoted *, ***, and ****, respectively.

All Firm-years Firm-years around CEO Tunovers (1) (2) Charity 0.209 [3.51]*** -0.201 NonCharity 0.072 CharityImprove [-2.07]** Post -0.136 CharityImprove×Post [-1.71]* Log_AT 0.202 0.211 MTB 0.000 -0.000 MTB 0.000 -0.000 Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-0.81] [-0.73] ROA -0.321 -0.269 [-1.08] [-0.93] [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [-0.93] [-1.02] Advertising -0.186 -0.456 [-0.93] [-2.16]** Advertising -0.057 -0.127 BoardCharity 0.447 0.402		Dependent Variable = <i>Total_KLD</i>		
(1) (2) Charity 0.209 (2) NonCharity 0.072 (1.13) CharityImprove -0.201 (-2.07)** Post -0.136 (-1.71)* CharityImprove×Post 0.137 (1.72)* Log_AT 0.202 0.211 [5,49]*** [6,14]*** MTB 0.000 -0.000 [0,72] [-0.37] Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [-2.02]** [0.85] Csh 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Adverti		· · · · · · · · · · · · · · · · · · ·		
Charity 0.209 [3.51]**** 0.072 Intervision Intervision Post -0.201 Post -0.136 [-1.71]* [-1.71]* CharityImprove×Post 0.137 [1.72]* 0.137 Log_AT 0.202 0.211 [5.49]*** [6.14]*** MTB 0.000 -0.000 [0.72] [-0.37] Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [-0.93] [-2.16]** Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** <th></th> <th>All Firm-years</th> <th>Turnovers</th>		All Firm-years	Turnovers	
S.51 *** NonCharity		(1)	(2)	
NonCharity 0.072 [1.13] -0.201 CharityImprove [-2.07]** Post -0.136 [-1.71]* -0.137 CharityImprove×Post 0.202 0.211 Log_AT 0.202 0.211 MTB 0.000 -0.000 MTB 0.000 -0.000 [0.72] [-0.37] Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 0 0.000 0.000 1.071 [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 3.37]*** [3.28]*** <t< th=""><th>Charity</th><th>0.209</th><th></th></t<>	Charity	0.209		
CharityImprove		[3.51]***		
CharityImprove Post Post CharityImprove×Post CharityImprove×Post CharityImprove×Post CharityImprove×Post CharityImprove×Post CharityImprove×Post Cosh C	NonCharity	0.072		
Post		[1.13]		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CharityImprove		-0.201	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			[-2.07]**	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Post		-0.136	
Log_AT			[-1.71]*	
Log_AT 0.202 0.211 [5.49]*** [6.14]*** MTB 0.000 -0.000 [0.72] [-0.37] Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***	CharityImprove imes Post		0.137	
[5.49]*** [6.14]*** MTB			[1.72]*	
MTB 0.000 -0.000 [0.72] $[-0.37]$ Leverage -0.001 -0.000 [-0.81] $[-0.73]$ ROA -0.321 -0.269 $[-2.02]^{**}$ $[-1.79]^{*}$ FirmAge 0.013 0.015 Cash 0.013 0.015 Cash 0.544 0.169 $[-0.85]$ $[-0.85]$ CFO -0.186 -0.456 $[-0.93]$ $[-2.16]^{**}$ RD 0.000 0.000 $[1.07]$ $[1.12]$ Advertising -0.057 -0.127 BoardCharity 0.447 0.402 $[3.37]^{***}$ $[3.28]^{***}$ LocalAssoc 0.290 0.207 $[2.44]^{**}$ $[1.91]^{*}$ Intercept -1.582 -1.380 $[-5.88]^{***}$ $[-5.17]^{***}$	Log_AT	0.202	0.211	
Leverage [0.72] [-0.37] Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 BoardCharity 0.447 0.402 BoardCharity 0.447 0.402 LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***		[5.49]***	[6.14]***	
Leverage -0.001 -0.000 [-0.81] [-0.73] ROA -0.321 -0.269 [-2.02]** [-1.79]* FirmAge 0.013 0.015 [2.26]** [2.88]*** Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 BoardCharity 0.447 0.402 BoardCharity 0.447 0.402 LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.17]*** -5.17]***	MTB	0.000	-0.000	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		[0.72]	[-0.37]	
ROA -0.321 -0.269 $[-2.02]^{**}$ $[-1.79]^{*}$ FirmAge 0.013 0.015 $[2.26]^{**}$ $[2.88]^{***}$ Cash 0.544 0.169 $[2.52]^{**}$ $[0.85]$ CFO -0.186 -0.456 $[-0.93]$ $[-2.16]^{**}$ RD 0.000 0.000 $[1.07]$ $[1.12]$ Advertising -0.057 -0.127 $[-1.02]$ $[-2.08]^{**}$ BoardCharity 0.447 0.402 $[3.37]^{***}$ $[3.28]^{***}$ LocalAssoc 0.290 0.207 $[2.44]^{**}$ $[1.91]^{*}$ Intercept -1.582 -1.380 $[-5.88]^{***}$ $[-5.17]^{***}$	Leverage	-0.001	-0.000	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		[-0.81]	[-0.73]	
FirmAge 0.013 0.015 $[2.26]^{**}$ $[2.88]^{***}$ $Cash$ 0.544 0.169 $[2.52]^{**}$ $[0.85]$ CFO -0.186 -0.456 $[-0.93]$ $[-2.16]^{**}$ RD 0.000 0.000 $[1.07]$ $[1.12]$ $Advertising$ -0.057 -0.127 $BoardCharity$ 0.402 $[-2.08]^{**}$ $BoardCharity$ 0.402 $[3.37]^{***}$ $[3.28]^{***}$ $LocalAssoc$ 0.290 0.207 $[2.44]^{**}$ $[1.91]^{*}$ $Intercept$ -1.582 -1.380 $[-5.88]^{***}$ $[-5.17]^{***}$	ROA	-0.321	-0.269	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		[-2.02]**	[-1.79]*	
Cash 0.544 0.169 [2.52]** [0.85] CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***	FirmAge	0.013	0.015	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		[2.26]**	[2.88]***	
CFO -0.186 -0.456 [-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]*** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.17]*** [-5.17]***	Cash	0.544	0.169	
[-0.93] [-2.16]** RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.17]***		[2.52]**	[0.85]	
RD 0.000 0.000 [1.07] [1.12] Advertising -0.057 -0.127 [-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.17]***	CFO	-0.186	-0.456	
The state of the		[-0.93]	[-2.16]**	
Advertising -0.057 [-1.02] BoardCharity 0.447 0.402 [3.37]*** LocalAssoc 0.290 0.207 [2.44]** Intercept -1.582 -1.380 [-5.17]***	RD	0.000	0.000	
[-1.02] [-2.08]** BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***		[1.07]	[1.12]	
BoardCharity 0.447 0.402 [3.37]*** [3.28]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***	Advertising	-0.057	-0.127	
[3.37]*** LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.17]***		[-1.02]	[-2.08]**	
LocalAssoc 0.290 0.207 [2.44]** [1.91]* Intercept -1.582 -1.380 [-5.88]*** [-5.17]***	BoardCharity	0.447	0.402	
[2.44]** [1.91]* -1.582 -1.380 [-5.88]*** [-5.17]***		[3.37]***	[3.28]***	
Intercept -1.582 -1.380 [-5.88]*** [-5.17]***	LocalAssoc	0.290	0.207	
[-5.88]*** [-5.17]***		[2.44]**	[1.91]*	
	Intercept	-1.582	-1.380	
Industry fixed effects Yes Yes		[-5.88]***	[-5.17]***	
Industry fixed effects Yes Yes				
	Industry fixed effects	Yes	Yes	

Year fixed effects	Yes	Yes
Firm clustering	Yes	Yes
N	19,434	14,561
Adj. R^2	16.7%	24.3%

Table 7. Regression Results of Firm Value

This table presents results from OLS regressions of firm value or performance in the following year on CEO charity involvement. In Panel A, sample includes firm-years with available data for the period of 1992-2018. In Panel B, the sample consists only of firm-years before and after a CEO turnover. *TobinsQ* and *ROA* represent Tobin's Q and return on assets. *SizeAdjRet* is the raw stock return for the firm adjusted for the average return of all firms in the same size decile. The definitions of all other variables are reported in Appendix. Standard errors are clustered at the firm level, and *t*-statistics are reported in the brackets. Year and industry fixed effects are included. Significance at the 10%, 5%, and 1% level are denoted *, **, and ***, respectively.

Panel A: Regression results using all firm-years

	Tobins Q	SizeAdjRet	ROA
	(1)	(2)	(3)
Charity	0.025	0.001	0.003
•	[2.09]**	[3.47]***	[2.50]**
NonCharity	-0.004	0.002	0.002
•	[-0.29]	[4.04]***	[1.49]
Log_AT	-0.059	0.000	-0.003
	[-3.67]***	[2.00]**	[-4.67]***
MTB	0.001	0.000	0.001
	[0.22]	[-0.16]	[2.62]***
Leverage	-0.282	0.004	0.028
	[-3.49]***	[3.48]***	[6.72]***
RD	1.489	0.013	-0.259
	[4.81]***	[4.16]***	[-14.73]***
CAR	-0.129		0.017
	[-2.94]***		[13.28]***
ReturnVolatility	-0.438	0.070	-0.721
	[-1.21]	[3.84]***	[-13.62]***
Num_Analysts	0.012	0.000	0.001
	[3.35]***	[-4.54]***	[6.59]***
Instown_Perc	0.052	0.010	0.027
	[1.16]	[10.26]***	[11.62]***
BoardCharity	0.129	0.001	-0.003
	[4.16]***	[2.01]**	[-1.43]
LocalAssoc	0.003	-0.002	0.002
	[0.14]	[-3.00]***	[0.99]
Tobins Q	0.650		
	[14.91]***		
SizeAdjRet		-0.075	
		[-14.36]***	
ROA			0.649
			[67.84]***
Intercept	0.894	-0.031	0.007
-	[5.64]***	[-23.24]***	[1.55]
Industry fixed effects	Yes	Yes	Yes

Year fixed effects	Yes	Yes	Yes	
Firm clustering	Yes	Yes	Yes	
N	53,653	61,748	62,007	
$Adj. R^2$	61.4%	36.0%	61.7%	

Table 7. Regression Results of Firm Value (Cont.)

Panel B: Regression results using firm-years around CEO turnovers

	Tobins Q	SizeAdjRet	ROA
	(1)	(2)	(3)
CharityImprove	-0.137	-0.002	0.012
	[-2.52]**	[-0.39]	[1.15]
Post	0.004	0.008	0.025
	[0.12]	[6.33]***	[6.90]***
CharityImprove×Post	0.162	0.002	-0.012
	[2.76]**	[0.35]	[-1.13]
Log_AT	-0.058	0.001	-0.003
	[-3.57]***	[3.75]***	[-4.57]***
MTB	0.001	-0.000	0.001
	[0.22]	[-0.37]	[2.45]**
Leverage	-0.287	0.002	0.027
	[-3.56]***	[1.63]	[6.21]***
RD	1.462	0.014	-0.258
	[4.85]***	[3.88]***	[-13.03]***
CAR	-0.132	0.007	0.017
	[-3.06]***	[10.43]***	[12.14]***
ReturnVolatility	-0.481	0.071	-0.715
•	[-1.37]	[3.52]***	[-12.24]***
Num_Analysts	0.012	-0.000	0.001
	[3.39]***	[-3.75]***	[6.50]***
nstown_Perc	0.051	0.009	0.025
	[1.13]	[8.09]***	[9.59]***
BoardCharity	0.131	0.003	-0.001
	[4.10]***	[3.85]***	[-0.63]
LocalAssoc	0.013	-0.002	0.002
	[0.52]	[-2.56]**	[0.84]
Tobins Q	0.649		
_	[15.36]***		
SizeAdjRet		-0.142	
•		[-15.97]***	
ROA		. ,	0.660
			[59.33]***
Intercept	0.887	-0.040	-0.013
	[5.59]***	[-20.64]***	[-2.30]**
	. ,	. ,	. ,
ndustry fixed effects	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes
Firm clustering	Yes	Yes	Yes
V	38,763	42,718	43,785
Adj. <i>R</i> ²	61.5%	37.2%	62.1%

Table 8. Path Analysis of CEO Charity Involvement and Firm Value

This table presents path analysis estimates for the relation between CEO charity involvement and firm value using three paths: employee welfare, customer satisfaction, and overall CSR performance. The definitions of all variables are reported in Appendix. Standard errors are clustered at the firm level, and *t*-statistics are reported as indicated. Year and industry fixed effects are included. Significance at the 10%, 5%, and 1% level are denoted *, **, and ***, respectively.

	Path = $Empl$	Path = $Employee_KLD$		$_$ Path = $Cust_Satis$		Path = $Total_KLD$	
	Coefficient	t-stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	
Direct Path							
P(Charity, TobinsQ)	0.0330	2.76***	0.0252	1.76*	0.0330	2.76***	
Mediated Path							
P(Charity, Path)	0.0384	2.75***	0.8249	1.66*	0.2344	8.13***	
P(Path, TobinsQ)	0.0250	4.86***	0.0107	1.53	0.0162	6.69***	
$P(Charity, Path) \times P(Path, TobinsQ)$	0.0010	2.40***	0.0088	1.12	0.0038	5.17***	
Controls	Ye	Yes		Yes		Yes	
Industry fixed effects	Yes		Yes		Yes		
Year fixed effects	Yes		Yes		Yes		
Firm clustering	Yes		Yes	Yes		Yes	
N	19,4	34	1,206	5	19,4	19,434	

Table 9. Individuals Who Began Charity Involvement Before Becoming CEO

This table presents results from OLS regressions for the time taken for an individual to be promoted to a CEO and firm corporate policies on CEO charity involvement. *Charity* is equal to 1 only for individuals who: (1) are included in 2013 and 2019 versions of BoardEx, (2) are involved with charitable organizations but are not CEOs in 2013, and (3) become CEOs after 2013. The definitions of all variables are reported in the Appendix. *t*-statistics are reported in brackets. In Panel A, industry and career start year fixed effects are included. In Panel B, industry and year fixed effects are included. Significance at the 10%, 5%, and 1% level are denoted *, **, and ***, respectively.

Panel A: Regression results of individual charity involvement on the time taken to be promoted to CEO.

	TimeToCEO (Any firm)	TimeToCEO (Public firm)
	(1)	(2)
Charity	-1.076	-0.507
	[-7.41]***	[-1.99]**
NonCharity	-1.599	-0.707
	[-4.78]***	[-1.29]
Controls	Yes	Yes
Industry fixed effects	Yes	Yes
Start-year fixed effects	Yes	Yes
N	12,368	1,678
Adj. R^2	22.3%	65.6%

Panel B: Regression results of CEO charity involvement on corporate policies.

	Turnover (Subordinates < 50 years old)	Employee_KLD	Cust_Satis	Total_KLD	TobinsQ	SizeAdjRet	ROA
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Charity	-0.019	0.041	0.585	0.145	0.024	0.001	0.002
	[-3.31]***	[2.23]**	[2.06]**	[1.99]**	[1.70]*	[2.46]**	[1.85]*
NonCharity	-0.018	0.018	-1.249	0.121	0.030	0.001	0.002
	[-1.00]	[1.01]	[-1.07]	[1.89]*	[0.64]	[0.40]	[0.48]
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Industry fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Year fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firm clustering	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	27,061	13,040	1,126	13,040	30,181	39,881	39,959
Adj. R^2	3.0%	22.8%	67.1%	0.168	61.6%	38.3%	57.7%

Table 10. Regression Results of Time Taken to be Promoted to Top Executives

This table presents results from OLS regressions of the time taken for an individual to be promoted to a non-CEO top executive on her charity involvement. The sample consists of 78,253 individuals who became non-CEO top executives and 9,986 individuals who became non-CEO top executives of public firms from 1950 to 2019. The definitions of all variables are reported in the Appendix. *t*-statistics are reported in brackets. Industry and career start year fixed effects are included. Significance at the 10%, 5%, and 1% level are denoted *, **, and ***, respectively.

	TimeToTMT (Any firm)	TimeToTMT (Public firm)
	(1)	(2)
Charity	-1.623	-0.983
	[-23.10]***	[-7.40]***
NonCharity	-1.667	-1.030
•	[-26.62]***	[-10.20]***
Woman	2.013	0.867
	[23.10]***	[6.57]***
MBA	-1.264	-0.437
	[-19.61]***	[-4.25]***
Grad_Law	-0.428	0.275
	[-3.22]***	[0.92]
CPA	-1.621	-0.933
	[-21.11]***	[-8.99]***
Auditor	-0.838	-0.186
	[-6.81]***	[-1.24]
Consultant	-1.586	-0.598
	[-18.39]***	[-4.03]***
Banking	0.424	-0.735
	[4.61]***	[-2.92]***
Legal	0.571	-0.487
	[2.90]***	[-1.11]
Investment	-2.702	-1.195
	[-31.01]***	[-7.03]***
PriorJobs	1.844	1.241
	[56.43]***	[16.74]***
Log_Network	0.497	0.100
208_110111	[27.69]***	[2.81]***
Log_AT	[27.07]	0.476
208211		[20.81]***
MTB		0.000
		[0.56]
Leverage		-0.001
20,0.0%		[-0.45]
Intercept	19.675	19.476
increept	[199.72]***	[86.74]***
Industry fixed effects	Yes	Yes
Start-year fixed effects	Yes	Yes
N	78,253	9,986
		·
Adj. R^2	30.1%	62.5%