Board of director compensation in China: It pays to be connected¹

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Abstract

We investigate the influence of network prominence on career outcomes in director networks of Chinese public firms from 2005 to 2014. We find that higher network prominence leads to increased compensation for independent and executive directors. We find that higher network prominence is positively related to director turnover for non-related directors, but negatively related to director turnover for related directors. Further, we find that higher network prominence leads to additional future directorships. Overall, we find that higher network prominence both directly leads to higher compensation and indirectly leads to higher compensation through the channels of labor mobility and additional board seats.

Keywords: Board Networks, Director Compensation, Director Turnover

JEL classifications: G32 Value of Firms; G34 Corporate Governance

1 Introduction

Boards of different firms are connected through common board members. These board connections form director networks. Director networks facilitate information transfer among boards, leading well-connected directors to be more informed. Through superior information, a wellconnected director may serve as a better adviser or a more efficient monitor.² In addition, board connections of directors may reflect the managerial talent and past success that signal director quality (Fama and Jensen (1983); Renneboog and Zhao (2011); Intintoli, Kahle, and Zhao (2018)). Indeed, recent literature reflects these advantages by illustrating how highly connected individuals fare better in their careers. For example, Ferris, David, and Yun (2016) find that U.S. firms increase the compensation of directors with network connections. Renneboog and Zhao (2018) find that in the U.K. director networks provide directors with access to labor market information. As a result, well-connected directors are more likely to leave their current position for another firm.

Although director networks have received academic attention, most studies focus on directors from western boards. There is limited research on the role of board networks in the development of a director's career in China, where the ownership structure and governance issues differ from those in the U.S. and U.K. (Jiang and Kim (2015)). This study examines how director networks affect director career outcomes in China. Our study addresses the following questions. How do board networks influence director compensation? How do director networks influence a director's job mobility? Are directors rewarded with additional future directorships for their network connections? We are interested in how the answers to these questions differ between Chinese and western boards.

We answer these questions by studying the unique structure of board memberships in China. Because board networks may have different effects on career outcomes for each type of director, we separate the board members into independent directors, executive directors and nonindependent non-executive directors.³ In addition, we categorize non-independent directors into related directors and non-related directors based on whether a non-independent director holds

²For example, Cai and Sevilir (2012) find that in the U.S. well-connected directors benefit firms in M&A transactions by providing private information about target firms. This information advantage allows acquiring firms to pay lower takeover premiums. Intintoli, Kahle, and Zhao (2018) find that the presence of well-connected independent directors improves financial reporting quality in U.S. firms.

³See Section 3.1 for classification.

a position in the controlling firms.⁴ This classification isolates the effects of board networks on career outcomes between related directors and non-related directors.

To examine the influence of board networks on director career outcomes, our study requires measures of director connections. We borrow these measures from graph theory.⁵ In graph theory, centrality measures the relative importance of each agent in a network. Since centrality measures are highly correlated, in our main results, we adopt eigenvector centrality to measure the influence of a director in a board network. Eigenvector centrality measures both the number of agent connections and the number of connections of an agent's connections. Following Koka and Prescott (2008), we name eigenvector centrality *network prominence*.

We first explore the influence of director networks on directorship level compensation. Following Chen and Keefe (2018), our compensation measures include both the propensity of a director to be paid in a firm and the level of compensation that a director receives from a firm in a given year. We find that independent and executive directors with higher network prominence receive higher compensation. Our findings regarding independent director compensation are consistent with the literature suggesting that board connections are positively priced in board compensation due to connections increasing director value.(Intintoli, Kahle, and Zhao (2018)). In addition, our results on executive director compensation are consistent with the literature suggesting that the information advantage gained through director networks grants executives managerial power, which helps executives increase their pay in compensation negotiation in China (Hallock (1997); Renneboog and Zhao (2011)).

We then examine whether director turnover increases with director network prominence. We find that well-connected board members experience more turnover. Our results are consistent with the literature arguing that director networks provide directors with information about better external directorship opportunities, leading to an increase in turnover (Renneboog and Zhao (2018)). In contrast, we find related directors experience less turnover than non-related directors.⁶ The above results are consistent with the literature suggesting that in the U.S. and U.K. board connections grant non-independent directors managerial power which shields them from dismissal, leading more connected directors to have less turnover (Renneboog and Zhao

⁴See Table 15 for the definition of related directors.

⁵Graph theory is a mathematical discipline. It has been widely used to model network in economics.

 $^{^{6}}$ We define related directors as those who hold positions in controlling firms. See Table 15 for all variable definitions.

(2011); Intintoli, Kahle, and Zhao (2018)). Overall, our study suggests a mixed effect of board networks on director job mobility. That is, board connections increase turnover for non-related directors to facilitate their access to better external opportunities, whereas board connections reduce turnover to protect related directors from dismissal.

We also investigate whether network prominence leads to directors obtaining future directorships. We find that well-connected directors receive more future directorships than less connected directors. This finding is consistent with the literature that well-connected directors are rewarded with additional directorships due to better advising, monitoring, or superior information about the labor market (Larcker and Tayan (2010); Cai and Sevilir (2012); Renneboog and Zhao (2014); Larcker, So, and Wang (2013); Fama and Jensen (1983); Ferris, Jagannathan, and Pritchard (2003); Renneboog and Zhao (2018)). In addition, we find that related non-independent non-executive directors (holding positions in controlling firms) gain more future directorships than other non-independent non-executive directors (not holding positions in controlling firms). This effect is stronger when these related directors have more board connections. Overall, we find that network prominence rewards directors with more future directorships. However, for non-independent non-executive directors, network prominence only leads to more future board seats for directors who hold positions in controlling firms (related directors).

In addition to the direct effect of network prominence on compensation, network prominence may directly indirectly affect total director compensation through two channels. First, well connected independent directors may receive higher total compensation by navigating from lower-paid directorships to higher-paid directorships (director turnover channel). Second, wellconnected independent directors receive higher total compensation by holding more board seats. We find support for both channels.

The remainder of the paper is organized as follows. Section 2 discusses relevant literature and develops the hypothesis. Section 3 presents sample and variables construction. Section 4 reviews the empirical testing approach and reports the main empirical results. Section 5 conducts robustness tests. Section 6 tests how prominence influences the labor mobility and number of directorships for related directors. Section 7 concludes the paper.

2 Literature and hypothesis development

Prior literature suggests that well-connected directors improve firm decision making through access to superior information (Larcker and Tayan (2010); Renneboog and Zhao (2011)). For example, Cai and Sevilir (2012) show how director connections benefit acquiring firms in M&A transactions in the U.S.. They find that board connections to target firms provide the acquirers with private information about target firms. This information advantage deters competition from less-informed outside bidders (winner's curse) and allows acquirers to have greater bargaining power in merger negotiation. As a result, well-connected acquirers pay lower takeover premiums. Moreover, Renneboog and Zhao (2014) demonstrate that director networks facilitate takeover activity among firms in the U.K.. They observe that better networked firms are more active bidders in the takeover transaction success rates and shorter negotiation periods.

Superior information gained through board connections may improve monitoring. For instance, Intintoli, Kahle, and Zhao (2018) find evidence that board connections of independent, elected audit committee members improve financial reporting quality in U.S. firms. Consistent with potential benefits from board connections, Larcker, So, and Wang (2013) demonstrate that in the U.S. well-connected firms are more profitable and have higher abnormal returns. If board connections benefit firms' decision making and corporate governance, firms will seek to hire well-connected directors, which leads to increased demand and higher director compensation. Furthermore, the relative position of a director in the network may reflect managerial talent and past success, which are signals of director quality (Fama and Jensen (1983); Renneboog and Zhao (2011); Intintoli, Kahle, and Zhao (2018)). This leads to a director with network power holding a strong position in compensation negotiation. Consistent with the idea connected directors are a scarce and valuable resource, Hallock (1997) finds that in the U.S. CEOs reciprocally interlocked through directorships earn significantly higher compensation. Renneboog and Zhao (2011) find that in the U.K. well-connected CEOs earn higher compensation. Although not tested in China, the prior literature suggests that in China director compensation increases with director network power. Therefore, our hypothesis is:

H1: Directors with higher network prominence are more likely to be paid and receive higher compensation, ceteris paribus.

Renneboog and Zhao (2011) argue that a director network grants directors managerial power, which shields them from dismissal, predicting that better-connected directors have less turnover. Consistent with this view, Intintoli, Kahle, and Zhao (2018) find that, following misconduct, highly connected audit committee members are less likely to experience turnover than lessconnected audit committee members. In contrast, an information advantage gained through director networks may provide new employment opportunities to directors. Thus, director networks might facilitate a director's departure from the current position to an outside option. Consistent with this view, Renneboog and Zhao (2018) find that better-connected directors experience higher turnover in the U.K.. Following Renneboog and Zhao (2018), we construct the hypothesis:

H2A: Directors with higher network prominence have higher labor mobility (measured by turnover), ceteris paribus.

A well-connected director may receive more compensation if the labor mobility is from a lower-paid to a higher-paid directorship. This leads to our next hypothesis:

H2B: Labour mobility of directors with high network prominence leads to higher total compensation, ceteris paribus.

Prior literature suggest that board connections improve firms' decision making and corporate governance (Larcker and Tayan (2010); Renneboog and Zhao (2011); Cai and Sevilir (2012); Renneboog and Zhao (2014); Intintoli, Kahle, and Zhao (2018); Larcker, So, and Wang (2013)). Fama and Jensen (1983) argue that director effort may be rewarded in the labor market with additional future directorships. Consistent with Fama and Jensen (1983), Ferris, Jagannathan, and Pritchard (2003) find that directors acquire additional directorships after firm performance improvement. Likewise, Renneboog and Zhao (2018) suggest that director networks facilitate director access to labor market information. Thus, by accessing superior information in the labor market, a well-connected director is more likely to gain additional directorships. Thus, directors with high network prominence are more likely to gain additional directorships in the future, leading to the hypothesis:

H3A: Directors with high network prominence gain further board seats, ceteris paribus.

Additional directorships provide additional compensation and therefore increase the director total compensation in a given year. Therefore:

H3B: Additional board seats gained through network prominence leads to higher total compensation, ceteris paribus.

Figure 1 demonstrates these hypotheses regarding network prominence and director compensation. H1 posits a direct effect of network prominence on directorship level compensation. H2 posits an indirect effect of network prominence on total compensation through labor mobility. H3 posits an indirect effect when network prominence leads to service on more boards, which leads to higher total compensation.

3 Sample and variable construction

3.1 Sample

Our sample consists of all firms listed on the Shanghai Stock Exchange (SSE) and Shenzhen Stock Exchange (SZSE) from 2005 to 2014. We start the sample from 2005 since directors' compensation information is not reported at the individual level until 2005.⁷ We collect the director profile, board profile and firm's ownership structure and accounting data from CSMAR (the Chinese Listed Firms Research Series database).⁸ We categorize our sample into independent directors and non-independent directors using the classification from the CSMAR database. In addition, we define executive directors as non-independent directors who hold executive positions in the firms and non-independent non-executive directors as non-independent directors who do not hold any executive positions in the firms. The director profile contains information on director compensation, turnover record, number of directorships and other director characteristics, such as the director's tenure, gender, age, political background, shareholding and relationship to the large shareholders. The board profile contains information on board size, duality, ratio of independent directors, CEO compensation and number of board meetings. To minimize the influence of outliers, we winsorize firms' accounting data at the top and bottom 0.5% percentiles.

 $^{^{7}}$ Chen and Keefe (2018) suggest that the improved reporting is a result of the regulation by the China Securities Regulatory Commission, which requires all listed firms to report compensation for each board of director beginning in 2005.

⁸The CSMAR database is widely regarded as the most comprehensive and authoritative database to study corporate finance and corporate governance in Chinese listed firms. According to a report issued by ShenZhen GTA, the CSMAR database has been used in papers published in a dozen leading international journals including *Journal of Finance, Journal of Financial Economics, Journal of Financial and Quantitative Analysis* and *Review of Financial Studies*.

Our final sample consists of 118,286 director-firm-year and 96,399 director-year observations. Out of 118,286 directors, 47,313 are independent directors and 70,973 are non-independent. Out of the 70,973 non-independent directors, 25,729 hold executive positions and 45,244 don't hold executive positions. In our sample, the number of firms ranges from 1,374 in 2005 to 2,652 in 2014. In the following sections, we construct all variables. Table 15 defines all variables.

3.2 Dependent variables

3.2.1 Directorship level compensation

We follow Chen and Keefe (2018) and measure the directorship level compensation by both the propensity to be paid and the level of compensation. To measure the propensity to be paid, we use the variable $Paid(0/1)_t$ as the dependent variable. A value of 1 is assigned if a director receives compensation from a firm in a given year and 0 otherwise. Table 4 shows that 94.8% of independent directors, 98.2% of executive directors and 46% of non-independent non-executive directors are paid. To measure the level of compensation, we use the variable $Ln(Comp+1)_t$ as the dependent variable. $Ln(Comp+1)_t$ is the natural logarithm of compensation that a director receives from a firm in a given year. Table 4 shows that the average annual compensation is 61,277 CNY (equivalent to 9,011 USD with the exchange rate of 6.8 CNY/USD) for an independent director, 530,525 CNY (equivalent to 78,018 USD with the exchange rate of 6.8 CNY/USD) for an executive director and 174,061 CNY (equivalent to 25,597 USD with the exchange rate of 6.8 CNY/USD) for a non-independent non-executive director.

3.2.2 Total director compensation

We measure the total director compensation by $Ln(Total\ comp+1)_t$, which is the natural logarithm of the aggregated compensation that a director collects from all firms that he or she serves in a given year. Table 4 shows that the average total compensation is 64,979 CNY (equivalent to 9,556 USD with the exchange rate of 6.8 CNY/USD) for an independent director, 535,700 CNY (equivalent to 78,779 USD with the exchange rate of 6.8 CNY/USD) for an executive director and 175,856 CNY (equivalent to 25,861 USD with the exchange rate of 6.8 CNY/USD) for a non-independent non executive director. As expected, the total compensation is higher than the directorship level compensation for independent directors. However, the difference between total compensation and directorship level compensation for executive directors and non-independent non-executive directors is small.⁹

3.2.3 Director turnover

Following Yermack (2005), we measure director turnover by $Turnover(0/1)_t$, which is set to 1 for an observation in the year t if a director does not appear in the annual report in the year t+1and 0 otherwise. We exclude observations from delisted firms. We also exclude observations from directors leaving the board in year 6 or year 7 since there is term limit regulation in China. Table 4 shows that 15.3% of independent, 7% of executive and 14.6% of non-independent nonexecutive directors in the year t leave their boards in the year t + 1.

3.2.4 Directors' future directorship

To measure directors' ability to gain future directorships, we use the variable $Directorship_{t+1}$ as the dependent variable. $Directorship_{t+1}$ measures the number of directorships a director holds in the year t+1. To avoid double counting $Directorship_{t+1}$ for directors with multiple directorships, we collapse director-firm-year observations into director-year observations. We report the summary statistics of $Directorship_{t+1}$ in Table 4. On average, an independent director holds 1.53 directorships, an executive director holds 1.02 directorships and a non-independent nonexecutive director holds 1.11 directorships. In our sample, multiple directorships are common only for independent directors.

3.3 Network prominence measure

Social actors (such as individuals or organizations) often form ties to other social actors through personal and business associations. In the current work we focus on the implicit ties formed when two individuals sit on the same board of directors (Jackson, 2010). The sum total of these ties form the network shown in Figure 2, which provides snapshots of the independent director network in China from 2005 to 2014. In 2005, firms in the central part of the network are well-connected. However, firms in the periphery of the network are isolated from the network center. The independent director network in China becomes very connected by 2014, where

⁹This result is not surprising since in China multiple directorships are uncommon for executive directors and non-independent non-executive directors. In our sample, the average directorships that an executive and a non-independent non-executive director holds is 1.02 and 1.11 respectively.

almost all firms are connected through the independent director network. Figure 3 shows a similar evolution in the non-independent director network in China. In 2005, most firms are isolated from each other in the non-independent director network. By 2014, most firms are connected to each other in the central part of the network, but some firms in the periphery of the network are still isolated.

Table 1 reports pairwise correlations for the network centrality measures of betweeness, degree, and eigenvector. The table reports correlations constructed using the entire sample (denoted as overall), the independent director sample, and non-independent sample. Within each sample, the three measures are highly correlated. For example, in the overall sample the correlation coefficients between the three measures are 0.79 (Betweeness and Degree), 0.63 (Betweeness and Eigenvector), and 0.74 (Degree and Eigenvector). Also, the overall and independent subsample centrality measures tend to be highly correlated. For example, the correlation coefficients between the Eigenvector measures are 0.60 (Independent and Overall) and 0.52 (Non-independent and Overall). However, the correlations between the non-independent sample and other samples are low. For example, the correlation coefficient between the Eigenvector measure is -0.03 (Non-independent and Independent).

In networks of this type, researchers are often interested in how an individual's position affects outcomes of importance like performance (Shmargad and Watts, 2016). In the current work, we focus on measures of centrality and eigenvector centrality in particular given the measure's association with influence (Koka and Prescott, 2008, Watts and Koput, 2019)). To calculate such a measure, we construct an adjacency matrix comprised of 1s and 0s where a value of 1 indicates a tie between individuals. A transformation of an eigenvector of this matrix provides a measure of centrality for each individual that emphasizes both the number of ties and the importance of those ties. Those with high eigenvector centrality occupy a prominent position in the network by virtue of the number of associations and the importance of those they associate with. Following the research of Koka and Prescott (2008), Watts and Koput (2019) and others, we thus define $Prominence_t$ as equal to the eigenvector centrality of a director in the year t.¹⁰ In our main tests, we use $Prominence_t$ for the entire network. In robustness tests, we use the centrality measure for either the independent or non-independent networks.

¹⁰Other centrality measures like betweenness and degree centrality were also tested and the results are qualitatively the same. Eigenvector centrality was chosen for its theoretical relevance.

In Table 2, we tabulate a list of directors with the highest eigenvector centrality each year in our sample. Consistent with the fact that independent directors are generally more wellconnected, seven of the ten most prominent directors are independent directors. Unsurprisingly, all these directors reside in Shanghai or Beijing, where most of the listed firms are located. Most of the directors in the list are academics from prestigious institutions in China. This finding is consistent with the frequency of academic directors in the Chinese independent directorship market. In addition, we find that network power coincides with both economic and political power. For example, in 2008 and 2009, the most prominent director LU Zhiqiang is a billionaire in China. In 2012 and 2013, the most prominent director ZHOU Qinye is the former vice president of Shanghai Stock Exchange.

To provide intuition about $Prominence_t$, Table 3 provides examples of independent directors in Panel A and non-independent directors in Panel B. For each type of director the Table provides an example of directors with $Prominence_t$ at the mean and the mean plus and minus one standard deviation. Directors at the mean minus a standard deviation are in small networks (four connections) and are the most connected of the directors they connect with. These directors are relatively isolated and don't connect to other connected directors. Directors at the mean have more connections (seven and fifteen) and connect to a more important director with modest network prominence. Lastly, directors at the mean plus one standard deviation connect to connect to even more directors (thirty and twenty) as well as connect to a director with relatively high network prominence.

3.4 Control variables

When studying the director compensation at directorship level, we control for director, board and firm features. The director level control variables include Woman(0/1), Age_t , Age_t^2 , $Tenure_t$, $Busy \, director(0/1)_t$, $Political \, background(0/1)_t$, $CEO/COB(0/1)_t$, $Related \, director(0/1)_t$ and $Ln(Shareholding + 1)_t$. The board level control variables consist of $Ln(Board \, size)_t$, $Duality(0/1)_t$, $Board \, composition(ind\%)_t$, $Number \, of \, meetings_t$ and $Ln(CEO \, compensation)_t$. The firm level controls include $State-owned(0/1)_t$, $Largest \, shareholder(\%)_t$, $Ln(Total \, Assets)_t$, $Book \, leverage(\%)_t$, $Cash \, holdings(\%)_t$, ROA_{t-1} and $Stock \, volatility_{t-1}$. When investigating the total compensation at director level, we use a similar set of control variables from previous regressions on director compensation at directorship level. However, we merge all directorship level controls into director level controls since the dependent variable $Ln(Total \ comp + 1)_t$ is aggregated at the director level.

In the regressions on director turnover, we use a similar set of control variables as previous regressions on director compensation. To model the effect of compensation on turnover, we include $Ln(comp + 1)_t$ as a control variable. To study the director's ability to gain future directorships, we use the same set of control variables from previous regressions on director turnover since those factors affecting turnover are likely to influence future directorships as well. However, we use the average values of several director level variables and all board and firm level variables since we merge director-firm-year observations into director-year observations.

In Table 4, we report the summary statistics of control variables. In China, 14% of independent directors, 11.4% of executive directors and 10.1% of non-independent non-executive directors are female. In our sample, 29.4% of independent directors are busy directors and 41.6% of independent directors are politically connected. The average independent director is 53.5 years old and has 6.2 years of board experience. The average executive director is 47.5 years old and has 5.3 years of board experience. The average non-independent non-executive director is 50.5 years old and has 6 years of board experience. In our sample, 41.6% of independent directors, 14.6% of executive directors and 23.2% of non-independent non-executive directors have political backgrounds. 18.9% of executive directors and 54.8% of non-independent non-executive directors have political backgrounds. 18.9% of executive directors and 54.8% of non-independent non-executive directors have political backgrounds. 18.9% of executive directors and 54.8% of non-independent non-executive directors have political backgrounds. 18.9% of executive directors and 54.8% of non-independent non-executive directors have political backgrounds.

In China, the average board has 9 members and 36.9% of them are independent directors. In 23% of Chinese boards, the CEO and chairman are the same person. The average board meeting frequency is 9.2 per year. In our sample, 45.1% of firms are state-owned and the largest shareholder on average holds 35.9% of the shares of the listed firm. The average firm has total book assets of 10.3 billion CNY (equivalent to 1.51 billion USD with the exchange rate of 6.8 CNY/USD), book leverage of 46% and cash holding of 17.6%. On average, the ROA of Chinese listed firms is 3.9% and the annual stock volatility is 13.4%.

Table 5 provides a correlation matrix of key variables from regressions on director compensation. Panel A provides the pairwise correlation coefficients for independent directors. Panel B provides the pairwise correlation coefficient for executive directors. Panel C provides the pairwise correlation coefficient for non-independent non-executive directors. The correlation matrix denotes a positive correlation between network prominence and compensation for all kinds of directors. The correlations matrix shows high correlations between the number of directorships and network prominence. In particular, the correlation between $Prominence_t$ and $Directorship_{t+1}$ is 50.6%, 24.6%., and 44.0% for independent, executive, and non-executive directors, respectively. These high correlations suggest in our robustness tests where we control for the number of directorships finding statistical significance is challenging. Also, for all director types the correlations between $Prominence_t$ and both Age_t and $Political background(0/1)_t$ are positive whereas the correlation between $Prominence_t$ and Woman(0/1) is negative.

4 Testing approach and results

4.1 Director network and directorship level compensation

In this section, we explore whether network prominence increases directorship level compensation. The regressions control for year, industry, number of directorships effects. The unit of observation is the director-firm-year. We estimate

$$Compensation_{i,f,t} = \alpha + \lambda Prominence_{i,f,t-1} + \mathbf{X}\beta + \delta_t + \delta_j + \delta_n + \epsilon_{i,f,t}$$
(1)

where *i* denotes the director, *f* the firm, and *t* represents the year. The dependent variable is either $Paid(0/1)_t$ or $Ln(Comp + 1)_t$. The variable of interest is $Prominence_{i,f,t-1}$. **X** is a matrix of control variables previously described in Section 3.4. δ_t , δ_j , and δ_n denote year, industry, and number of directorships effects, respectively. $\epsilon_{i,f,t}$ is the error term. To control for potential serial correlation, we use robust standard errors adjusted for firm-level clustering and heteroskedasticity.

Table 6 reports results of regressions investigating how network prominence affects directorship level compensation. We separate the sample of non-independent directors into executive director and non-executive director sub-samples. In Columns (1) and (2), we study the influence of network prominence on independent director compensation. In Columns (3) and (4), we investigate the influence of network prominence on non-independent executive director compensation. In Columns (5) and (6), we study the influence of network prominence on nonindependent non-executive director compensation. In Columns (1), (3), and (5) the dependent variable is $Paid(0/1)_t$. In Columns (2), (4), and (6) the dependent variable is $Ln(Comp + 1)_t$. In Table 6, the regressions include year, industry and number of directorships fixed effects.

In Column (1), the coefficient associated with $Prominence_{t-1}$ is positive and statistically significant at the less than 1% level in explaining the propensity to receive compensation for independent directors. In Column (2), the coefficient associated with $Prominence_{t-1}$ is positive and statistically significant at the less than 1% level in explaining the level of compensation. The above results support Hypothesis 1 that independent directors with higher network prominence are more likely to be paid and receive higher compensation. In Column (3), the coefficient associated with $Prominence_{t-1}$ is statistically no different than zero in explaining the propensity to receive compensation for an executive director. In Column (4), the coefficient associated with $Prominence_{t-1}$ is positive and statistically significant at the less than 1% level in explaining the level of compensation of executive directors. The above results suggest that Hypothesis 1 partly holds for executive directors. In Columns (5) and (6), the coefficients associated with $Prominence_{t-1}$ is statistically no different than zero in explaining the propensity to receive compensation and level of compensation for non-executive directors. These results suggest that the positive relationship between director network and compensation does not apply to non-executive directors.

Our evidence regarding the economic importance is mixed. First, we estimate the economic importance of $Prominence_{t-1}$ on being paid. Importantly, in our sample 95% of the independent directors are paid. Using the estimated LPM in Column (1) of Table 6, we find a one standard deviation increase in $Prominence_{t-1}$ only implies an increase of 0.76% in the probability of being paid. In untabulated results, we estimated a logistic model and due to the non-linearity of the model we estimate the effect at different levels of $Prominence_{t-1}$. Although the influence of $Prominence_{t-1}$ on the probability of being paid increases at lower levels, the effect is still modest. Second, we estimate the economic importance of $Prominence_{t-1}$ on the level of compensation. Using the estimated equation in Column (2) of Table 6, we find a one standard deviation increase in $Prominence_{t-1}$ implies a 13.57% increase in the natural log of 1

plus compensation or a 75% increase from mean independent director compensation of 61.37.¹¹ Overall, prominence is much more important in influencing the level of compensation than whether the independent director is paid.¹²

4.2 Director network and director turnover

In this section, we estimate linear probability models regarding the effects of network prominence on director turnover. The regressions control for year, industry, number of directorships effects. The unit of observation is a director-firm-year. Our estimation equation is:

$$Turnover_{i,f,t} = \alpha + \lambda Prominence_{i,f,t} + \mathbf{X}\beta + \delta_t + \delta_j + \delta_n + \epsilon_{i,f,t}$$
(2)

where t represents the year, j the industry, n the number of directorships, respectively. The dependent variable is $Turnover(0/1)_t$. The variable of interest is $Prominence_{i,f,t}$. **X** is a matrix of control variables previously described in Section 3.4. δ_t , δ_j , and δ_n denote year, industry, and number of directorships effects, respectively. $\epsilon_{i,f,t}$ is the error term. To control for potential serial correlation, we use robust standard errors adjusted for firm-level clustering and heteroskedasticity.

Table 7 reports results of regressions investigating how network prominence affects director turnover. In Column (1), we examine the influence of network prominence on independent director turnover. In Column (2), we study the influence of network prominence on executive director turnover. In Column (3), we examine the impact of network prominence on nonindependent non-executive director turnover. In Table 7, the regressions include year, industry and number of directorships fixed effects. In Columns (1), (2) and (3), the coefficients associated with *Prominence*_t are positive and statistically significant at the less than 1% level in explaining $Turnover(0/1)_t$ for all directors. The above results support Hypothesis H2A that directors with higher network prominence have higher labor mobility.

The effect of network prominence on turnover is economically important. The magnitudes of the coefficients associated with network prominence are similar in Table 7, ranging from

¹¹At mean independent director compensation the ln(61.37+1) = 4.133. The implied increase is 4.133*1.1357 = 4.685 or compensation of exp(4.685) - 1 = 107.31, which represents an approximate 75% increase in compensation from the mean.

 $^{^{12}}$ In robustness tests, we find our results in Column (4) of Table 6 are sensitive to the network in which the network measure is drawn. As a result, we don't estimate economic importance.

5.107 in Column (1) to 6.183 in Column (3). These coefficients imply a one standard deviation increase in prominence leads to a 2.3%, 5.1%, and 4.76% increase in turnover for specifications in Columns (1) through (3), respectively. These increases in turnover represent 32%, 35%, and 33% changes from mean turnover for independent, executive non-independent, and non-executive non-independent directors.¹³

4.3 Director network and future directorships

In this section, we investigate whether network prominence improves directors' ability to gain future directorships. The regressions control for year fixed effects. The unit of observation is a director-year. Our estimation equation is as follows:

$$Directorships_{i,t+1} = \alpha + \lambda Prominence_{i,t} + \mathbf{X}\beta + \delta_t + \epsilon_{i,t}$$
(3)

where *i* represents the director and *t* the year. The dependent variable is $Directorship_{t+1}$. The variable of interest is $Prominence_{i,t}$. **X** is a matrix of control variables previously described in Section 3.4. δ_t denotes year fixed effects. $\epsilon_{i,t}$ is the error term. To control for potential serial correlation, we use robust standard errors adjusted for director-level clustering and heteroskedasticity.

Table 8 reports results of regressions investigating how network prominence affects directors' ability to gain more future directorships. In Column (1), we study the impact of network prominence on independent directors' ability to gain more future directorships. In Column (2), we examine the influence of network prominence on non-independent executive directors' ability to gain more future directorships. In Column (3), our studies investigate the impact of network prominence on non-independent non-executive directors' ability to gain more future directorships. In Column (3), our studies investigate the impact of network prominence on non-independent non-executive directors' ability to gain more future directorships. In Table 8, the regressions include year fixed effects. In Columns (1), (2) and (3), the coefficients associated with $Prominence_t$ are positive and statistically significant at the less than 1% level in explaining $Directorship_{t+1}$. The above results support Hypothesis H3A that directors with higher network prominence gain further board seats.

 $^{^{13}}$ For example, a 2.3% increase in turnover for an independent director represents a 2.3/7.1=32% increase from the mean of independent director turnover.

The effect of network prominence on future directorships is economically important, especially for independent and non-executive non-independent directors. For independent directors, the coefficient associated with prominence in Column (1) of Table 8 is 20.052. This coefficient implies a one standard deviation increase in prominence leads to 15.13% ($\frac{dy}{dx}dx = \frac{dy}{dx}\sigma_x =$ (20.052)(.007544) = 0.15127) in the number of directorships the following year. This represents a 9.75% ($\frac{.15127}{1.55}$) increase from the mean. The effect of network prominence for executive nonindependent directors on future directorships represents a 2.4% increase from the mean whereas the effect of network prominence for non-executive non-independent directors on future directorships is a 19.04% increase from the mean. Overall, these findings suggest executive directors likely hold board seats due their position as executives; implying their network is relatively less important in obtaining non-independent board seats.

4.4 Network prominence, labor mobility, and compensation

In this section, we investigate whether network prominence increases total director compensation through the channel of labor mobility. The unit of observation is a director-year since we calculate the total compensation by aggregating director compensation for each firm that they serve in a given year. In regressions, we control for year and director fixed effects. We estimate:

$$TotalCompensation_{i,t} = \alpha + \lambda_1 Prominence_{i,t-1} + \lambda_2 Turnover_{i,t-1} + \lambda_3 Directorships + \lambda_4 (Prominence_{i,t-1} * Turnover_{i,t-1}) + \delta_i + \delta_t + \epsilon_{it}$$
(4)

where *i* represents the director and *t* the year. The dependent variable is $Ln(Total\ comp+1)_t$. The variables of interest are $Directorship_t$, $Turnover(\%)_{t-1}$, $Prominence_{t-1}$ and its interaction term. A positive (negative) interaction term between $Turnover(\%)_{t-1}$ and $Prominence_{t-1}$ tests hypothesis H2B that network prominence in the year t-1 increases(decreases) total compensation in the year t through director turnover in the year t-1. The coefficient associated with $Directorship_t$ tests hypothesis H3B that network prominence leads to higher total compensation through more board seats. **X** is a matrix of control variables previously described in Section 3.4. δ_t and δ_i denote year and director fixed effects, respectively. ϵ_{it} is the error term. To control for potential serial correlation, we use robust standard errors adjusted for director-level clustering and heteroskedasticity.

Table 9 reports results of regressions investigating whether network prominence increases total compensation through director turnover. In Column (1), the coefficient associated with $Turnover(\%)_{t-1}$ is negative and statistically significant at the less than 1% level in explaining total compensation for independent directors. This result suggests that an independent director receives less total compensation in the year t if he or she experiences turnover in the year t-1. In Column (1), the coefficient associated with $Prominence_{t-1}$ is positive and statistically significant at the less than 1% level in explaining total compensation for independent directors, suggesting that network prominence decreases the negative effect of turnover for independent directors. In Column (1), the coefficient associated with the interaction term between $Prominence_{t-1}$ and $Turnover(\%)_{t-1}$ is positive and statistically significant at the less than 1% level in explaining total compensation for independent directors. The result from the interaction term supports hypothesis H2B that the network prominence of independent directors increases their total compensation through director turnover. Moreover, in Column (1), the coefficient associated with $Directorship_t$ is positive and statistically significant at the less than 10% level in explaining total compensation for independent directors. This result is consistent with hypothesis H3B that network prominence increases total compensation through more board seats.

Using the coefficients in Column (1), we solve for the value of prominence where turnover increases compensation as follows:

$$\frac{\partial}{\partial Turnover} ln(1 + Compensation) = -1.226 + 34.019 Prominence > 0$$
$$34.019 Prominence > 1.266$$
$$Prominence > 0.036$$

Thus, total compensation increases with turnover when $Prominence_{t-1}$ is greater than 0.036. This value occurs at approximately the 98% of the empirical distribution, which implies prominence overcomes the negative influence of turnover on compensation only at very high levels of prominence. Overall, our evidence shows that turnover is costly, but that network power reduces that cost.

5 Robustness

5.1 Firm and director effects

In this section, we test if our prior results are robust to within firm or within director fixed effects. First, we re-estimate Eq. (1) including either firm or director fixed effects. Table 10 reports results of regressions on director compensation when firm and director fixed effects are included. In Panel A, the firm fixed effect controls for any time-invariant firm-specific factors that affect director compensation. In Panel B, the director fixed effects control for any time-invariant director-specific factors that affect director compensation. In Columns (1) and (2), the coefficients associated with $Prominence_{t-1}$ are positive and statistically significant at the less than 1% level in explaining $Paid(0/1)_t$ and $Ln(Comp + 1)_t$ for independent directors. In addition, in Column (4), the coefficient associated with $Prominence_{t-1}$ is positive and statistically significant at the less than 1% level in explaining $Ln(Comp + 1)_t$ for executive directors. The above results suggest that our previous findings on network prominence on director compensation are robust to firm and director fixed effects.

Second, we re-estimate Eq. (2) including either firm or director fixed effects. Table 11 reports results of regressions on director turnover when firm and director fixed effects are included. In Columns (1), (2) and (3), the coefficients associated with $Prominence_t$ are positive and statistically significant at the less than 1% level in explaining $Turnover(0/1)_{t-1}$. Therefore, the positive relationship between network prominence and director turnover is robust to firm and director fixed effects.

Third, we re-estimate Eq. (3) including either firm or director fixed effects. Table 12 reports results of regressions on directors' ability to gain more future board seats when director fixed effects are included. In Columns (1) and (3), the coefficients associated with $Prominence_t$ are positive and statistically significant at the less than 5% level in explaining $Directorship_{t+1}$. In Columns (2), the coefficient associated with $Prominence_t$ is statistically no different than zero in explaining $Directorship_{t+1}$. Thus, the positive relationship between network prominence and directors' ability to gain further board seats is robust to director fixed effects for the independent director and non-independent not executive directors.

5.2 Network measure

In our main results, we use $Prominence_t$ measured using the overall director network, which includes both independent and non-independent directors. In this section, we re-estimate our tests using $Prominence_t$ from either the independent or non-independent network.

First, we estimate if the network used changes the influence of $Prominence_t$ on compensation. Our baseline results are shown in Table 6. Using $Prominence_t$ constructed from the independent director network, we re-estimate Eq. (1) and find qualitatively identical results to those shown in Columns (1) and (2). Next, using $Prominence_t$ constructed from the nonindependent director network, we re-estimate Eq. (1) and find different results to those shown in Column (4). In our main results, the coefficient associated with $Prominence_t$ is positive and statistically significant at less than the 1% level in explaining compensation of non-independent director network this relationship is no longer statistically significant. Overall, this robustness test suggests that increased compensation for executive non-independent arises through access to information through connections to the overall Chinese director network and not the non-independent network.

Second, we estimate if the network used changes the influence of $Prominence_t$ on turnover. Our original baseline results are shown in Table 7. We re-estimate Eq. (2) using $Prominence_t$ constructed from the independent network in Column (1) and the non-independent network in Columns (2) and (3). We find qualitatively identical results.

Third, we estimate if the network used changes the influence of $Prominence_t$ on the number of directorships. Our original baseline results are shown in Table 8. We re-estimate Eq. (3) using $Prominence_t$ constructed from the independent network in Column (1) and the nonindependent network in Columns (2) and (3). We find qualitatively identical results.

Fourth, we estimate if the network used changes the influence of $Prominence_t$ on the number of directorships. Our original baseline results are shown in Table 9. We re-estimate Eq. (4) using $Prominence_t$ constructed from the independent network in Column (1) and the nonindependent network in Columns (2) and (3). We find qualitatively identical results.

6 Related directors

Related directors are non-independent directors holding positions in both the listed firms and controlling firms.¹⁴ Their relationship with controlling shareholders may influence their career outcomes.¹⁵ The literature on related director's career outcomes is scant since related directors are uncommon in western countries. Related directors are very common in China, where 19% of executive directors and 55.2% of non-independent non-executive directors in our sample are related directors.

In this section, we test the influence of prominence through related directors on turnover and number of directorships. However, as show in Table 4 only 46% of related non-executive directors are paid. We do not have data regarding related director compensation in the controlling firm. This measurement error makes it impossible to test the influence of prominence through related directors on compensation. In this section, we use either firm or director fixed effects.

6.1 Related directors and turnover

To understand how prominence might influence turnover of related directors we estimate

$$Turnover_{i,f,t} = \alpha + \lambda_1 Prominence_{i,f,t} + \lambda_2 Related(0/1)_{i,f,t} + \mathbf{X}\beta + \lambda_3 (Prominence_{i,f,t} * Related(0/1)_{i,f,t}) + \delta_i + \delta_f + \delta_t + \delta_n + \epsilon_{i,f,t}$$
(5)

where *i* represents the director, *f* the firm, and *t* the year, *n* the number of directorships, respectively. The dependent variable is $Turnover(0/1)_t$. Table 13 reports estimation results of Eq. (5). Panel A includes firm firm fixed effects (δ_f is estimated) whereas Panel B include director fixed effects (δ_i is estimated).

In Columns (1) and (2), the coefficients associated with Related director $(0/1)_t$ are negative and statistically significant at the less than 1% level in explaining $Turnover(0/1)_t$, suggesting that non-independent directors holding another position in the controlling firms (related

¹⁴China Securities Regulatory Commission (CSRC) forbids an individual holding a position in a controlling firm from serving as an independent director in the listed firm. Thus, related directors can only hold non-independent directorships.

¹⁵For example, Lo et al. (2010) suspect but do not test that a related director is less likely to be paid and receives less compensation as controlling shareholders may pay part or all of director compensation. Chen and Keefe (2018) empirically test and find that in China related directors are less likely to be paid and receive less compensation.

directors) are less likely to experience turnover. This result suggests that the relationship with controlling shareholders increases directors' job security. In addition, in Columns (1) and (2), the coefficients associated with the interaction term between *Related director* $(0/1)_t$ and *Prominencet* are negative and statistically significant at either the 1% or 5% level in explaining $Turnover(0/1)_t$, indicating that network connections increase job security for related directors.

6.2 Related directors and number of directorships

The above analysis suggests network prominence provides job security for related directors. To understand how prominence might influence the number of directorships of related directors we estimate

$$Directorships_{i,f,t+1} = \alpha + \lambda_1 Prominence_{i,f,t} + \lambda_2 Related(0/1)_{i,f,t} + \lambda_3 (Prominence_{i,f,t} * Related(0/1)_{i,f,t}) + \mathbf{X}\beta + \delta_i + \delta_t + \delta_n + \epsilon_{i,f,t}$$
(6)

where *i* represents the director, *f* the firm, and *t* the year, *n* the number of directorships, respectively. The dependent variable is $Directorship_{t+1}$.

Table 13 reports estimation results of Eq. (refeq:6). Our variable of interest is in the interaction term between *Related director* $(0/1)_t$ and *Prominence*_t in explaining *Directorship*_{t+1} for non-independent directors. In Column (2), the coefficient associated with the interaction term between *Related director* $(0/1)_t$ and *Prominence*_t is positive and statistically significant at the less than 5% level in explaining *Directorship*_{t+1}, indicating that network prominence increases the ability to gain further board seats for non-independent non-executive directors through controlling shareholders.

7 Conclusion

Through board networks, well-connected directors become more informed. Previous studies find that this information advantage benefits directors' careers on western boards. However, there is no research on whether this effect holds for the directors in China, where the ownership structure and governance issues differ from those in the U.S. and U.K. (Jiang and Kim (2015)). Therefore, our study of board networks on directors' career outcomes in China fills this gap. Our study suggests that director networks are positively priced in independent and executive director compensation. Our findings on independent director compensation are consistent with the literature suggesting that board network prominence signals director quality. On the other hand, our results on executive director compensation support the literature suggesting that board networks grant executives managerial power in compensation negotiations.

Except for related directors, board networks increase director turnover. This result suggests that board networks provide directors more new employment opportunities, increasing their job mobility. In contrast, we find that related directors experience less turnover than non-related directors, suggesting that a relationship with controlling shareholders may shield directors from dismissal. Moreover, related directors with more board connections experience less turnover than those with fewer board connections, suggesting that board connections could increase job security for related directors. The mixed results of board connections on director turnover are not surprising. Through director networks, non-related directors could get more information on outside employment opportunities, and related directors could gain managerial power to protect them from dismissal.

Our study suggests that well-connected directors receive more future directorships. This finding supports the argument that well-connected directors are rewarded with more future directorships due to either their quality or superior information in the labor market (Larcker and Tayan (2010);Renneboog and Zhao (2011); Cai and Sevilir (2012); Renneboog and Zhao (2014); Intintoli, Kahle, and Zhao (2018); Larcker, So, and Wang (2013); Fama and Jensen (1983); Ferris, Jagannathan, and Pritchard (2003); Renneboog and Zhao (2018)). Moreover, we find that related directors with more board connections receive more future directorships, suggesting that board connections could benefit related directors' careers.

Our study identifies channels where network prominence indirectly increases total compensation. For example, well-connected independent directors may receive higher total compensation through moving from low-paid directorships to high-paid directorships (turnover channel). In addition, they may increase total compensation from holding more board seats. Overall, we find that the board network directly increases directorship level compensation and indirectly leads to higher total compensation through labor mobility and additional board seats.

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Figure 2: Independent director network from 2005 to 2014



(a) Independent director network at 2005

(b) Independent director network at 2009

(c) Independent director network at 2014

Figure 3: Non-independent director network from 2005 to 2014



(a) Non-independent director network at 2005 (b) Non-independent director network at 2009

(c) Non-independent director network at 2014

This table provides pairwise correlations for betweeness, degree, and eigenvector networ	rk
centrality measures. The table reports correlations constructed using the entire sample	
(denoted as overall), the independent director sample, and non-independent sample.	

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(1) Betweeness Overall	1								
(2) Degree Overall	0.79	1							
(3) Eigenvector Overall	0.63	0.74	1						
(4) Betweeness Independent	0.71	0.6	0.44	1					
(5) Degree Independent	0.68	0.79	0.56	0.75	1				
(6) Eigenvector Independent	0.53	0.53	0.60	0.63	0.74	1			
(7) Betweeness Non-Independent	0.15	0.20	0.31	-0.05	-0.06	-0.03	1		
(8) Degree Non-Independent	0.32	0.52	0.52	-0.06	0	0	0.44	1	
(9) Eigenvector Non-Independent	0.07	0.17	0.52	-0.06	-0.06	-0.03	0.36	0.48	1

Table 2: Board of directors with most network prominence each year

This table reports the names, number of directorships, network prominence and profile for the board of directors with most network prominence each year from 2005 to 2014.

Year	Director Name	Number Directorships	Network Prominence	Director Type	Director Profile
2005	WANG Fanghua	6	12.9	Independent	WANG Fanghua is the professor in marketing at Antai School of Finance and Economics, Shanghai Jiaotong University
2006	LI Yang	5	9.6	Independent	LI Yang is the director of the Fi- nancial Research Institution, Chinese
2007	ZHANG Jianwei	4	11.4	Non-independent	ZHANG Jianwei is the vice president of the Shanghai Jiushi Group, which is the shareholder of all listed firms where he sits at
2008	LU Zhiqiang	3	9.7	Non-independent	LU Zhiqiang is a billionaire in China. At 2009, he is ranked the fifth richest person in China by Rupert Hoogewerf. He is the shareholder of all these three
2009	LU Zhiqiang	3	12.9	Non-independent	firms. LU Zhiqiang is a billionaire in China. At 2009, he is ranked the fifth richest person in China by Rupert Hoogewerf. He is the shareholder of all these three firms
2010	GAO Peiyong	3	8.7	Independent	GAO Peiyong is the director of the Na- tional Academy of Economic Strategy, Chinese Academy of Social Sciences
2011	WU Xiaoqiu	6	17.5	Independent	WU Xiaoqiu is a professor at the School of Finance, Renming Univer-
2012	ZHOU Qinye	6	8.0	Independent	ZHOU Qinye served as the vice presi- dent of the Shanghai Stock Exchange before 2012. Between 2011 and 2012, he served as the chief accountant of the Shanghai Stock Exchange
2013	ZHOU Qinye	9	6.6	Independent	ZHOU Qinye served as the vice presi- dent of the Shanghai Stock Exchange before 2012. Between 2011 and 2012, he served as the chief accountant of the Shanghai Stock Exchange.
2014	LV Changjiang	7	7.2	Independent	IV Changjiang is the accounting pro- fessor at the School of Management, Fudan University

Table 3: Director Network Prominence Examples

Panel A reports network prominence examples for independent directors. Panel B reports network prominence examples for non-independent directors. In each panel, the name, number of directorships, compensation and connections are reported for directors at the mean minus one standard deviation, the mean, and the mean plus one standard deviation.

		Director Examples	
	Mean-sd	Mean	Mean+sd
Panel A: independent director			
Name	Tan Wen	Wang Zhexia	Sun Guangguo
Number of directorships	1	1	3
Total compensation(CNY)	16,000	40,000	161,000
Connected to important person?	In 2006, Mr Tan Wen	In 2005, Mrs Wang	In 2014, Mr Sun
	four other directors	Znexia directly con-	Guangguo directly
	Among his connected	directors Among her	other directors Mr
	directors, the most	connected directors,	Sun Guangguao shares
	connected has a net-	the most connected	the same board with
	work prominence of	person is Mr Chai	Mr Liu Yongzhe, who
	0.00047	Qiang, who has net-	has a network promi-
		work prominence of	nence equaling to 6.3.
		2.9. The highest net-	The highest network
		in 2005 is 12.9 .	2014 is 7.2
Panel B: Non-independent director			
Name	Xie Guosheng	Teng Baixing	Yang Yihui
Number of directorships	1	2	2
Total compensation(CNY)	0	7,500	0
Connected to important person?	In 2005, Mr Xie Gu-	In 2009, Mrs Teng	In 2008, Mr Yang Yi-
	osheng directly con-	Baixing is directly con-	hui directly connects
	nects to <i>four</i> other di-	nected to <i>fifteen</i> direc-	to <i>twenty-four</i> other
	connected directors he	nected directors Mr	connected director is
	is the most connected	Liu Xiaobing has the	Mrs Yang Yihui her-
	director and has a net-	highest network promi-	self, who has network
	work prominence equal	nence of 0.51. The	prominence equal to
	to 0.0001287	highest network promi-	1.32. The highest net-
		nence value in 2009 is	work prominence value
		12.9	in 2008 is 9.7.

Table 4: Summary statistics

This table provides the summary statistics for all variables. Table 15 defines all variables. Panel A provides the summary statistics for independent directors. Panel B provides the summary statistics for executive directors. Panel C provides the summary statistics for non-independent non-executive directors. Panel D provides the summary statistics for board and firm characteristics in firm-year. All monetary terms are denominated in Chinese Yuan (CNY).

$\begin{array}{llllllllllllllllllllllllllllllllllll$		Obs	Mean	SD	25th	Median	75th
$\begin{array}{cccc} Paid(0/1)_{t} & 45,687 & 0.947 & 0.224 & 1 & 1 & 1 \\ Total compensation(Thousands CNY)_{t} & 45,687 & 0.4377 & 0.2408 & 37 & 50 & 71.4 \\ Total compensation(Thousands CNY)_{t} & 29,721 & 64.742 & 110.889 & 38 & 50 & 0 \\ Director ship_{t+1} & 26,846 & 1.574 & 0.998 & 1 & 1 & 2 \\ Prominence_{t-1} & 45,687 & 0.729 & 0.951 & 0.157 & 0.396 & 0.942 \\ Woman(0/1) & 45,687 & 0.140 & 0.347 & 0 & 0 & 0 \\ Darector(1)_{1} & 45,687 & 0.206 & 0.456 & 0 & 0 & 1 \\ Terure_{t} & 45,687 & 0.206 & 0.456 & 0 & 0 & 1 \\ Pauld background(0/1)_{t} & 45,687 & 0.417 & 0.493 & 0 & 0 & 1 \\ Pauld B. Executive director characteristics \\ Paid(0/1)_{t} & 24,700 & 53,743 & 9,651 & 46 & 52 & 61 \\ Political background(0/1)_{t} & 24,700 & 53,743 & 0.355 & 1 & 1 & 1 \\ Director compensation(Thousands CNY)_{t} & 24,700 & 53,743 & 0.355 & 1 & 1 & 1 \\ Director compensation(Thousands CNY)_{t} & 22,655 & 0.066 & 0.248 & 0 & 0 \\ Directorship_{t+1} & 20,4700 & 0.334 & 0.411 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 21,070 & 0.334 & 0.411 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 24,700 & 0.344 & 0.411 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 24,700 & 0.134 & 0.317 & 0 & 0 & 0 \\ Directorship_{t+1} & 24,700 & 0.134 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 24,700 & 0.134 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 24,700 & 0.144 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 24,700 & 0.144 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 24,700 & 0.144 & 0.532 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 34,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Prominence_{t-1} & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Directorship_{t+1} & 3.320 & 1.120 & 0.431 & 1 & 1 \\ Prominence_{t-1} & 43,812 & 0.46 & 0.498 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 43,812 & 0.46 & 0.498 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 43,812 & 0.46 & 0.498 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 43,812 & 0.431 & 0.733 & 0.333 & 0.475 & 7 \\ Total compensation(Thousands CNY)_{t} & 43,812 & 0.46 & 0.498 & 0 & 0 & 0 \\ Related director(0/1)_{t} & 43,812 & 0.431 & 0.733 & 0.333 & 0.475 & 556 & 56$	Panel A. Independent director characteristics						
$\begin{array}{ccccc} Director compensation(Thousands CNY)_i & 45,687 & 61.377 & 62.408 & 37 & 50 & 71.4 \\ Total compensation(Thousands CNY)_i & 29,71 & 64.742 & 110.889 & 38 & 50 & 70 \\ Turnover(0/1)_i & 45,687 & 0.739 & 0.346 & 0 & 0 & 0 \\ Directorship_{i+1} & 26,646 & 1.574 & 0.998 & 1 & 1 & 2 \\ Prominence_{i-1} & 45,687 & 0.749 & 0.951 & 0.347 & 0 & 0 & 0 \\ Buy director(0/1)_i & 45,687 & 0.246 & 0.3297 & 3 & 6 & 8 \\ Age_i & 45,687 & 53.543 & 9.651 & 46 & 52 & 61 \\ Political background(0/1)_i & 45,687 & 0.417 & 0.493 & 0 & 0 & 1 \\ \hline Panel B. Executive director characteristics \\ Paid(0/1)_i & 24,700 & 0.981 & 0.135 & 1 & 1 & 1 \\ Director compensation(Thousands CNY)_i & 24,700 & 0.981 & 0.335 & 1 & 1 & 1 \\ Director compensation(Thousands CNY)_i & 22,335 & 50.372 & 625.314 & 221.8 & 380 & 628 \\ Total compensation(Thousands CNY)_i & 22,335 & 50.066 & 0.248 & 0 & 0 \\ Director compensation(Thousands CNY)_i & 22,655 & 0.066 & 0.248 & 0 & 0 \\ Director ship_{i+1} & 20,344 & 1.018 & 0.163 & 1 & 1 & 1 \\ Prominence_{i-1} & 24,700 & 0.334 & 0.111 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 24,700 & 0.133 & 0.317 & 0 & 0 & 0 \\ reture_i & 24,700 & 0.134 & 0.312 & 0 & 0 & 0 \\ Related director(0/1)_i & 24,700 & 0.144 & 0.352 & 0 & 0 & 0 \\ Related director(0/1)_i & 24,700 & 0.144 & 0.352 & 0 & 0 & 0 \\ Related director(0/1)_i & 24,700 & 0.144 & 0.352 & 0 & 0 & 0 \\ Related director(0/1)_i & 24,700 & 0.144 & 0.352 & 0 & 0 & 0 \\ Related director(0/1)_i & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Turnover(0/1)_i & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director compensation(Thousands CNY)_i & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director ship_{i+1} & 3.326 & 1.120 & 0.431 & 1 & 1 & 1 \\ Prominence_{i-1} & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Related director(0/1)_i & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director compensation(Thousands CNY)_i & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director ship_{i+1} & 3.326 & 1.120 & 0.431 & 1 & 1 & 1 \\ Prominence_{i-1} & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director ship_{i+1} & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director shi$	$Paid(0/1)_t$	$45,\!687$	0.947	0.224	1	1	1
$\begin{array}{ccccccc} Total compensation (Thousands CNY)_t & 29,721 & 64.742 & 110.889 & 38 & 50 & 70 \\ Directorship_{t+1} & 26,846 & 1.574 & 0.998 & 1 & 1 & 2 \\ Prominence_{t-1} & 45,687 & 0.729 & 0.951 & 0.157 & 0.396 & 0.942 \\ Woman(d/1) & 45,687 & 0.140 & 0.347 & 0 & 0 & 0 \\ Basy director(1)_1 & 45,687 & 0.296 & 0.456 & 0 & 0 & 1 \\ Terure_t & 45,687 & 0.296 & 0.456 & 0 & 0 & 1 \\ Paule B, Executive director characteristics \\ Political background(0/1)_t & 45,687 & 0.417 & 0.493 & 0 & 0 & 1 \\ Pauel B, Executive director characteristics \\ Political background(0/1)_t & 24,700 & 53,843 & 9.651 & 46 & 52 & 61 \\ Political background(0/1)_t & 24,700 & 53,843 & 9.651 & 46 & 52 & 61 \\ Political background(0/1)_t & 24,700 & 53,8723 & 638,501 & 20,28 & 630 \\ Total compensation(Thousands CNY)_t & 22,455 & 50,066 & 0.248 & 0 & 0 & 628 \\ Turnover(0/1)_t & 22,700 & 53,143 & 20,23 & 348 & 648 & 0 & 0 & 0 \\ Treator on pensation(Thousands CNY)_t & 22,455 & 0.066 & 0.248 & 0 & 0 & 0 \\ Turnover(0/1)_t & 24,700 & 0.313 & 0.411 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 24,700 & 0.313 & 0.411 & 0.110 & 0.219 & 0.402 \\ Woman(0/1) & 24,700 & 0.134 & 0.413 & 0.317 & 0 & 0 & 0 \\ Terture_t & 24,700 & 0.134 & 0.413 & 0.317 & 0 & 0 & 0 \\ Related director(0/1)_t & 24,700 & 0.134 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_t & 24,700 & 0.144 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_t & 24,700 & 0.144 & 0.52 & 0 & 0 & 0 \\ Related director(0/1)_t & 43,812 & 175.481 & 482.363 & 0 & 0 & 178.7 \\ Total compensation(Thousands CNY)_t & 43,812 & 175.481 & 482.363 & 0 & 0 & 178.7 \\ Total compensation(Thousands CNY)_t & 43,812 & 0.46 & 0.498 & 0 & 0 \\ Directorship(1) & 3.326 & 1.120 & 0.431 & 1 & 1 \\ Prominence_{t-1} & 43,812 & 0.481 & 0.733 & 0.331 & 0.475 & 0 & 0 \\ Related director(0/1)_t & 43,812 & 0.553 & 0.497 & 0 & 1 & 1 \\ Director compensation(Thousands CNY)_t & 43,812 & 0.431 & 0.733 & 0.333 & 0.475 & 0 & 0 \\ Directorship(1) & 43,812 & 0.553 & 0.497 & 0 & 1 & 1 \\ Director ship(1) & 43,812 & 0.553 & 0.497 & 0 & 1 & 1 \\ Director ship(1) & 43,812 & 0.553 & $	$Director\ compensation (Thousands\ CNY)_t$	$45,\!687$	61.377	62.408	37	50	71.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Total\ compensation (Thousands\ CNY)_t$	29,721	64.742	110.889	38	50	70
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$Turnover(0/1)_t$	41,055	0.139	0.346	0	0	0
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$Directorship_{t+1}$	26,846	1.574	0.998	1	1	2
$\begin{array}{l l l l l l l l l l l l l l l l l l l $	$Prominence_{t-1}$	45,687	0.729	0.951	0.157	0.396	0.942
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Woman(0/1)	45,687	0.140	0.347	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Busy director $(0/1)_t$	45,687	0.296	0.456	0	0	1
	$Tenure_t$	$45,\!687$	6.200	3.297	3	6	8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Age_t	$45,\!687$	53.543	9.651	46	52	61
$\begin{array}{l lllllllllllllllllllllllllllllllllll$	Political background $(0/1)_t$	$45,\!687$	0.417	0.493	0	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Panel B. Executive director characteristics						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$Paid(0/1)_t$	24,700	0.981	0.135	1	1	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Director compensation (Thousands CNY)_t$	24,700	535.723	638.591	229.2	382.8	630
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Total compensation(Thousands CNY)_{t}$	22.335	530.372	625.314	221.8	380	628
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$Turnover(0/1)_{t}$	22.655	0.066	0.248	0	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Directorshin_{t+1}$	20.344	1.018	0.163	1	1	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Prominence_{\pm -1}$	24,700	0.334	0.411	0.110	0.219	0.402
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$W_{oman}(n/1)$	24,700	0.113	0.317	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Tenure.	24,700 24,700	5 448	3 270	3	4	7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Age.	24,700 24,700	47552	6.576	43	47	52
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Political background(0/1)	24,700 24,700	0 144	0.352	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} P = P \\ P = P \\ P = P \\ P \\ P \\ P \\ P \\$	24,100 24,700	0.144	0.302	0	0	0
$\begin{array}{cccccc} Paid(0/1)_t & 43,812 & 0.46 & 0.498 & 0 & 0 & 1 \\ Director compensation(Thousands CNY)_t & 43,812 & 175.481 & 482.363 & 0 & 0 & 178.7 \\ Total compensation(Thousands CNY)_t & 36,935 & 176.090 & 472.122 & 0 & 0 & 180 \\ Turnover(0/1)_t & 41,180 & 0.135 & 0.342 & 0 & 0 & 0 \\ Director ship_{t+1} & 33,326 & 1.120 & 0.431 & 1 & 1 & 1 \\ Prominence_{t-1} & 43,812 & 0.481 & 0.703 & 0.133 & 0.272 & 0.564 \\ Woman(0/1) & 43,812 & 0.041 & 0.301 & 0 & 0 & 0 \\ Tenure_t & 43,812 & 50.55 & 7.799 & 45 & 50 & 56 \\ Political background(0/1)_t & 43,812 & 50.55 & 7.799 & 45 & 50 & 56 \\ Political background(0/1)_t & 43,812 & 0.553 & 0.497 & 0 & 1 & 1 \\ Share ownership(Millions Shares)_t & 43,812 & 0.553 & 0.497 & 0 & 1 & 1 \\ Share ownership(Millions Shares)_t & 12,840 & 9.307 & 3.774 & 7 & 9 & 11 \\ CEO compensation(Thousands CNY)_t & 12,840 & 9.307 & 3.774 & 7 & 9 & 11 \\ CEO compensation(Thousands CNY)_t & 12,840 & 9.307 & 3.774 & 7 & 9 & 11 \\ CEO compensation(Thousands CNY)_t & 12,840 & 0.550.662 & 719.272 & 202.051 & 403.164 & 686.001 \\ Board size_t & 12,840 & 0.369 & 0.054 & 0.333 & 0.333 & 0.4 \\ State-owned(0/1)_t & 12,840 & 0.369 & 0.054 & 0.333 & 0.333 & 0.4 \\ State-owned(0/1)_t & 12,840 & 0.480 & 0.5 & 0 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.477 & 0.3774 & 7.50 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.480 & 0.5 & 0 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.477 & 0.3774 & 7.50 & 0 & 0 \\ State varge(\%)_t & 12,840 & 0.477 & 0.3774 & 7.50 & 0 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.477 & 0.3774 & 7.50 & 0 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.480 & 0.5 & 0 & 0 & 1 \\ Largest shareholder(\%)_t & 12,840 & 0.477 & 0.3774 & 1.236 & 0.675 & 6.659 \\ Total assets(Billions CNY)_t & 12,840 & 0.477 & 0.334 & 0.3737 & 0.468 \\ Total assets(Billions CNY)_t & 12,840 & 0.474 & 0.234 & 0.3 & 0.475 & 0.639 \\ Cash holding(\%)_t & 12,840 & 0.175 & 0.309 & 0.067 & 0.123 & 0.227 \\ ROA_t & 12,840 & 0.036 & 0.060 & 0.012 & 0.033 & 0.063 \\ Total assets(Billions CNY)_t & 12,840 & 0.376 & 0.051 & 0.095 & 0.1$	Share ownership(Millions Shares) _t	24,700 24,700	6.744	31.104	0	0	0.679
Panel C. Non-independent non-executive director characteristics $Paid(0/1)_t$ 43,8120.460.498001 $Paid(0/1)_t$ 43,812175.481482.36300178.7 $Total compensation(Thousands CNY)_t36,935176.090472.12200180Turnover(0/1)_t41,1800.1350.342000Directorship_{t+1}33,3261.1200.431111Prominence_{t-1}43,8120.4810.7030.1330.2720.564Woman(0/1)43,8120.0557.799455056Political background(0/1)_t43,8126.0863.534359Aget43,8120.5530.497011Share ownership(Millions Shares)_t43,8120.5530.497011Share ownership(Millions Shares)_t12,8409.3073.7747911CEO compensation(Thousands CNY)_t12,8409.3073.7747911Board size_t12,8400.2110.408000Board compensition(ind%)_t12,8400.3570.1550.3330.3330.448Board composition(ind%)_t12,8400.3570.1550.2330.3370.468Board size_t12,8400.3570.1550.2330.3370.468Board composition(ind%)_t12,8400.3570.155$,					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Panel C. Non-independent non-executive director characteristics						
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$Paid(0/1)_t$	$43,\!812$	0.46	0.498	0	0	1
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$Director\ compensation (Thousands\ CNY)_t$	43,812	175.481	482.363	0	0	178.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Total\ compensation (Thousands\ CNY)_t$	36,935	176.090	472.122	0	0	180
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Turnover(0/1)_t$	41,180	0.135	0.342	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Directorship_{t+1}$	33,326	1.120	0.431	1	1	1
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$Prominence_{t-1}$	$43,\!812$	0.481	0.703	0.133	0.272	0.564
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Woman(0/1)	43,812	0.101	0.301	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$Tenure_t$	43,812	6.086	3.534	3	5	9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Age_t	43,812	50.55	7.799	45	50	56
Related director $(0/1)_t$ 43,8120.5530.497011Share ownership (Millions Shares)_t43,8124.29832.477000Panel D. Board and firm characteristicsNumber of meetings_t12,8409.3073.7747911CEO compensation (Thousands CNY)_t12,840565.062719.272202.051403.164686.001Board sizet12,8408.9971.922899Duality (0/1)_t12,8400.2110.408000Board composition (ind%)_t12,8400.3690.0540.3330.3330.4State-owned (0/1)_t12,8400.4800.5001Largest shareholder (%)_t12,8400.3570.1550.2330.3370.468Total assets (Billions CNY)_t12,8400.4740.2340.30.4750.639Cash holdings (%)_t12,8400.1750.3090.0670.1230.227ROAt12,8400.0360.0600.0120.0330.065	Political background $(0/1)_t$	43,812	0.233	0.422	0	0	0
Share ownership(Millions Shares)_t $43,812$ 4.298 32.477 0 0 0 Panel D. Board and firm characteristicsNumber of meetings_t $12,840$ 9.307 3.774 7 9 11 CEO compensation(Thousands CNY)_t $12,840$ 565.062 719.272 202.051 403.164 686.001 Board sizet $12,840$ 8.997 1.922 8 9 9 Duality($0/1)_t$ $12,840$ 0.211 0.408 0 0 0 Board composition(ind%)_t $12,840$ 0.369 0.054 0.333 0.333 0.4 State-owned($0/1)_t$ $12,840$ 0.480 0.5 0 0 1 Largest shareholder(%)_t $12,840$ 0.357 0.155 0.233 0.337 0.468 Total assets(Billions CNY)_t $12,840$ 0.474 0.234 0.3 0.475 0.639 Cash holdings(%)_t $12,840$ 0.175 0.309 0.067 0.123 0.227 ROAt $12,840$ 0.036 0.060 0.012 0.033 0.065	Related director $(0/1)_t$	43,812	0.553	0.497	0	1	1
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Share $ownership(Millions Shares)_t$	$43,\!812$	4.298	32.477	0	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Panel D. Board and firm characteristics						
$\begin{array}{cccccc} CEO\ compensation (Thousands\ CNY)_t & 12,840 & 565.062 & 719.272 & 202.051 & 403.164 & 686.001 \\ Board\ size_t & 12,840 & 8.997 & 1.922 & 8 & 9 & 9 \\ Duality(0/1)_t & 12,840 & 0.211 & 0.408 & 0 & 0 & 0 \\ Board\ composition (ind\%)_t & 12,840 & 0.369 & 0.054 & 0.333 & 0.333 & 0.4 \\ State-owned(0/1)_t & 12,840 & 0.480 & 0.5 & 0 & 0 & 1 \\ Largest\ shareholder(\%)_t & 12,840 & 0.357 & 0.155 & 0.233 & 0.337 & 0.468 \\ Total\ assets(Billions\ CNY)_t & 12,840 & 10.877 & 30.742 & 1.256 & 2.675 & 6.659 \\ Book\ leverage(\%)_t & 12,840 & 0.474 & 0.234 & 0.3 & 0.475 & 0.639 \\ Cash\ holdings(\%)_t & 12,840 & 0.175 & 0.309 & 0.067 & 0.123 & 0.227 \\ ROAt & 12,840 & 0.036 & 0.060 & 0.012 & 0.033 & 0.063 \\ Stock\ volatility & 12,840 & 0.125 & 0.120 & 0.051 & 0.005 & 0.110 & 0.151 \\ \end{array}$	Number of meetings _t	12,840	9.307	3.774	7	9	11
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$CEO\ compensation (Thousands\ CNY)_t$	12.840	565.062	719.272	202.051	403.164	686.001
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Board size	12.840	8.997	1.922	8	9	9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$Duality(0/1)_t$	12.840	0.211	0.408	õ	Ő	Õ
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Board composition(ind%)+	12.840	0.369	0.054	0.333	0.333	0.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$State-owned(0/1)_{t}$	12.840	0.480	0.5	0	0	1
$Total assets(Billions CNY)_t$ $12,840$ 0.307 0.150 0.537 0.406 $Total assets(Billions CNY)_t$ $12,840$ 10.877 30.742 1.256 2.675 6.659 $Book leverage(\%)_t$ $12,840$ 0.474 0.234 0.3 0.475 0.639 $Cash holdings(\%)_t$ $12,840$ 0.175 0.309 0.067 0.123 0.227 ROA_t $12,840$ 0.036 0.060 0.012 0.033 0.063	Largest shareholder($\%$).	12,840	0.357	0.155	0.233	0.337	0 468
Bookleverage(%)_t12,840 0.6742 1.200 2.073 0.039 Bookleverage(%)_t12,840 0.474 0.234 0.3 0.475 0.639 Cash holdings(%)_t12,840 0.175 0.309 0.067 0.123 0.227 ROAt12,840 0.036 0.060 0.012 0.033 0.063	Total assets (Billions CNY)	12,040 12,840	10.877	30 749	1.255	2.675	6 659
$Cash holdings(\%)_t$ 12,8400.3740.2540.50.4750.009 ROA_t 12,8400.1750.3090.0670.1230.227 ROA_t 12,8400.0360.0600.0120.0330.063	$\frac{1}{1} \frac{1}{1} \frac{1}$	12,040	0 474	0.234	1.200	2.075 0.475	0.009
ROA_t 12,840 0.175 0.505 0.007 0.123 0.227 ROA_t 12,840 0.036 0.060 0.012 0.033 0.063 Stock volatility 12,807 0.120 0.051 0.005 0.110 0.151	Cash holdings(%).	12,040	0.474	0.204	0.5	0.470	0.009
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	POA.	12,040	0.110	0.009	0.007	0.120	0.441
	Stock volatility	12,040 12,807	0.030	0.000	0.012	0.000	0.005

Table 5: Cross correlations of network prominence and board of director compensation

This table provides the correlation matrix of key variables from regressions on directors' compensation. Panel A reports the correlation matrix for independent director compensation. Panel B reports the correlation matrix for non-independent non-executive director compensation. Table 15 provides all variable definitions. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

Panel A: Independent director	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
$(1)Paid(0/1)_t$	1										
(2)Director compensation(Thousands CNY) _t	0.263^{**}	1									
$(3)Prominence_{t-1}$	0.0064	0.147^{**}	1								
$(4) Directorship_t$	0.0217^{**}	0.041^{**}	0.506^{**}	1							
(5) Woman(0/1)	-0.00735	-0.0251^{**}	-0.072**	-0.0474^{**}	1						
$(6)Age_t$	-0.00199	0.0985^{**}	0.0446^{**}	-0.00995*	-0.095**	1					
$(7)Tenure_t$	0.104^{**}	0.0621^{**}	0.0098	0.0615^{**}	-0.0224**	0.137^{**}	1				
(8) Political background $(0/1)_t$	0.0021	0.0494**	0.15**	0.193**	-0.0567**	0.253**	0.0494**	1			
Panel B: Executive director	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
$\frac{1}{(1)Paid(0/1)_{t}}$	1	(-)	(0)	(1)	(0)	(0)	(•)	(0)	(0)	(10)	(11)
(2) Director compensation (Thousands $CNY)_{+}$	0 107**	1									
$(2) Director compensation (1 no as an as C \cap P)_{l}(3) Prominence_{t-1}$	-0.0271**	0.254**	1								
$(4) Directorship_t$	-0.0353**	0.0484**	0.246**	1							
(1) D (1) D (1) (1) (1) (1) (1) (1) (1) (1)	0.0192**	-0.0234**	-0.0318**	-0.0164**	1						
$(6) Age_t$	-0.0077	0.125**	0.078**	0.0298**	-0.061**	1					
$(7)Tenure_{t}$	0.038**	0.097**	0.027**	0.078**	-0.033**	0.279**	1				
(8) Political background $(0/1)_{t}$	-0.0092	0.0802**	0.055**	0.0684**	-0.0215**	0.132**	0.0546^{*}	* 1			
$(9)CEO/COB(0/1)_t$	0.0011	0.124**	0.004	0.0384**	-0.142**	0.129**	0.0962^{*}	* 0.16**	1		
(10) Related director $(0/1)_t$	-0.085**	0.029**	0.013	0.0454^{**}	-0.027**	0.082**	0.088**	0.089**	0.184**	1	
$(11)Ln(Shareholding+1)_t$	0.088^{**}	0.075^{**}	-0.073**	-0.027**	0.0138^{*}	0.0569^{**}	-0.0037	0.065^{**}	0.039^{**}	-0.034*	* 1
Panel C: Non-executive director	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
$(1)Paid(0/1)_t$	1										
(2)Director compensation(Thousands CNY) _t	0.385^{**}	1									
$(3)Prominence_{t-1}$	-0.086**	0.012^{*}	1								
$(4)Directorship_t$	-0.096**	-0.055**	0.44^{**}	1							
(5) Woman(0/1)	0.006	-0.03**	-0.027**	-0.025**	1						
$(6)Age_t$	0.0366^{**}	0.095^{**}	0.056^{**}	0.0202^{**}	-0.111**	1					
$(7)Tenure_t$	0.086^{**}	0.144^{**}	-035	0.025^{**}	-0.0413**	0.286^{**}	1				
(8) Political background $(0/1)_t$	0.035^{**}	0.086^{**}	0.092^{**}	0.118^{**}	-0.048**	0.179^{**}	0.049^{**}	1			
$(9)CEO/COB(0/1)_t$	0.177^{**}	0.259^{**}	-0.043**	-0.024**	-0.093**	0.126^{**}	0.146^{**}	0.172^{**}	1		
(10) Related director $(0/1)_t$	-0.289**	-0.112**	0.094^{**}	0.061^{**}	-0.0069	0.0028	0.052^{**}	0.023**	0.076^{**}	1	
$(11)Ln(Shareholding+1)_t$	0.261^{**}	0.227^{**}	-0.094**	-0.091**	0.017^{**}	0.0999^{**}	0.116^{**}	0.048**	0.188** -	0.186^{**}	1

Table 6: Compensation through network prominence

This table reports the coefficients associated with $Prominence_{t-1}$ in explaining director compensation. In columns (1), (3) and (6), the dependent variable is $Paid(0/1)_t$, a dummy variable that equals to 1 if a board of director receives zero compensation at year t and 0 otherwise. In columns (2), (4) and (6), the dependent variable is $Ln(Comp + 1)_t$, the logarithm of compensation for a director in a firm at year t. Table 15 provides all variable definitions. The regressions control for year, industry, and number of directorships fixed effects. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Indepen	dent director	Non-independent director			
			Executive director Non-executive			utive director
	Paid(0/1).	$Ln(Comn \pm 1)$	Paid(0/1)	$Ln(Comn \pm 1)$	Paid(0/1)	$Ln(Comn \pm 1)$
Explanatory variables	(1)	(2)	(3)	(4)	(5)	$\frac{Ln(Comp+1)_t}{(6)}$
Prominon on	0.769***	12 560***	0.461	0.760**	0.210	2 754
$Frommence_{t-1}$	(5,72)	(9 79)	(1.20)	9.709	(0.82)	(0.82)
$W_{om} an \left(0/1 \right)$	(3.72)	(0.70)	(-1.39)	(2.10)	(-0.62)	(-0.63)
woman(0/1)	(0.003)	(1.40)	(2.45)	(1.91)	(2.22)	(1.66)
1 00	(-0.95)	(-1.40)	(3.45)	(1.01)	(2.22)	(1.00)
Age_t	(2.62)	(2.50)	(0.25)	(2.48)	(5.06)	(2.87)
42	(2.03)	(3.39)	(0.25)	(2.40)	(-5.00)	(-3.67)
Age_t	-0^{-12}	(2.07)	-0	-0^{-1}	(5.00)	(2.00)
Tomore	(-3.13)	(-3.97)	(-0.04)	(-2.40)	(0.09)	(3.90)
$1 enure_t$	(7.64)	(6, 14)	(2.42)	(2.06)	(12.18)	(1452)
\mathbf{P}_{1} , \mathbf{P}_{2} , \mathbf{P}_{1}	(7.04)	(0.14)	(2.43)	(5.90)	(15.16)	(14.05)
Busy $airector(0/1)_t$	-0.007	-0.080				
D_{i}	(-0.58)	(-0.01)	0.000	0.000	0.010**	0 150**
Political backgrouna $(0/1)_t$	-0.005^{++}	-0.055	-0.002	-0.009	(0.012^{+1})	(2.42)
	(-2.20)	(-2.23)	(-0.58)	(-0.27)	(2.20)	(2.43)
$CEO/COB(0/1)_t$			-0.007^{***}	0.196^{***}	0.218^{***}	3.259^{***}
\mathbf{D}			(-3.17)	(7.05)	(39.47)	(46.97)
Related director $(0/1)_t$			-0.021	-0.204	-0.242	-3.010
			(-7.90)	(-5.75)	(-52.16)	(-54.48)
$Ln(Shareholding+1)_t$			0.001	0.016	(20.21)	(159^{+++})
	0.004***	0.007***	(6.53)	(9.69)	(28.31)	(32.83)
$Ln(Board\ size)_t$	0.024^{++++}	0.337^{++++}	-0.001	-0.075	-0.006	-0.035
$\mathbf{D} = 1 \cdot 1 \cdot (0 \cdot 1)$	(3.56)	(4.49)	(-0.10)	(-0.93)	(-0.48)	(-0.23)
$Duality(0/1)_t$	-0.003	-0.031	-0.012***	-0.132***	0.005	0.060
	(-0.95)	(-0.98)	(-5.36)	(-4.35)	(0.70)	(0.76)
Board composition $(ind\%)_t$	$0.120^{-1.0}$	1.906	-0.034*	-0.499*	0.109^{++}	1.473***
	(6.14)	(8.74)	(-1.74)	(-1.90)	(2.23)	(2.48)
Number of $meetings_t$	0	0.001	-0	0.005	0.004***	0.044***
	(0.14)	(0.32)	(-0.63)	(1.24)	(6.20)	(6.06)
$Ln(CEO\ compensation)_t$	0.002^{***}	0.023^{***}	0.011^{***}	0.190^{***}	0.004^{***}	0.049^{***}
	(5.63)	(7.56)	(15.08)	(19.45)	(7.69)	(8.83)
$State-owned(0/1)_t$	-0.008***	-0.191***	-0.007***	-0.123***	-0.125***	-1.575***
	(-3.23)	(-6.87)	(-3.40)	(-4.32)	(-23.68)	(-25.02)
Largest shareholder $(\%)_t$	0.026^{+++}	0.226^{++++}	0.010^{*}	-0.142^{*}	-0.216^{++++}	-2.541^{++++}
	(3.69)	(2.86)	(1.70)	(-1.71)	(-14.27)	(-14.13)
$Ln(Total Assets)_t$	-0.005	0.089	-0.003***	(12.05)	0.005^{++}	0.185****
\mathbf{D} and \mathbf{L} becomes \mathbf{r} (07)	(-5.16)	(7.67)	(-2.44)	(13.95)	(2.19)	(7.05)
Book $leverage(\%)_t$	(0.15)	(0.032)	-0.013°	$-0.370^{-0.3}$	-0.015	-0.299^{++}
	(2.15)	(0.49)	(-1.89)	(-4.09)	(-1.14)	(-2.01)
$Cash \ holdings(\%)_t$	0.008^{++}	0.158^{++++}	-0.026	-0.189*	-0.047***	-0.497*
DO 1	(2.23)	(3.10)	(-6.85)	(-1.89)	(-2.04)	(-1.84)
ROA_{t-1}	0.082^{++++}	$1.1(2^{+++})$	0.046^{+}	2.889	0.226	3.284
	(3.79)	(4.98)	(1.75)	(8.65)	(5.52)	(6.98)
Stock volatility _{t-1}	0.007^{++}	0.089^{++}	-0.009	-0.100	-0.034	-0.414
V C	(2.34)	(2.56)	(-1.38)	(-1.10)	(-3.67)	(-3.81)
rear effects	res	res	res	res	res	res
Moustry enects	res	res	res	res	res	res
Number of directorships effects D^2	Yes	Yes	Yes	Yes 0.175	Yes	Yes
κ- Observations	0.013	0.020	0.085	0.175	0.204	0.241
Observations	45,687	45,687	24,700	24,700	43,812	43,812

Table 7: Labor mobility through network prominence

This table reports the coefficients associated with $Prominence_t$ in explaining director turnover. The dependent variable is $Turnover(0/1)_t$, a dummy variable that equals to 1 for a director in year t if he or she does not appear in the annual report in year t + 1 and 0 otherwise. Table 15 provides all variable definitions. The regressions control for year, industry, and number of directorships fixed effects. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent variable= $Turnover(0/1)_t$						
	Independent director	Non-independent director Executive director Non-executive director					
Explanatory variables	(1)	(2)	(3)				
Prominence _t	5.107***	5.688***	6.183***				
	(16.39)	(8.69)	(14.09)				
Woman(0/1)	-0.008*	-0.020***	0.003				
	(-1.79)	(-3.84)	(0.59)				
Aget	-0.008***	-0.006**	0.002				
5.0	(-4.53)	(-2.41)	(1.01)				
Aqe_{\pm}^{2}	0***	0***	-0				
5 [(4.61)	(3.44)	(-0.12)				
$Tenure_t$	0.063***	0.003***	0.009***				
-	(60.35)	(5.88)	(17.40)				
Busy director $(0/1)_t$	-0.267***	()					
0	(-8.84)						
Political background $(0/1)_t$	-0.007**	-0.004	-0.001				
<i>j</i>	(-2.18)	(-1.00)	(-0.30)				
$Ln(comp+1)_t$	-0.016***	-0.011***	-0.007***				
	(-24.84)	(-9.04)	(-21.03)				
Number of meetings _t	0.003***	0.001***	0.002***				
	(7.49)	(2.93)	(5.39)				
$CEO/COB(0/1)_{t}$	(11-0)	-0.078***	-0.101***				
		(-23.78)	(-29.25)				
Related director $(0/1)_{t}$		-0.031***	-0.189***				
		(-8.88)	(-49.03)				
$Ln(Shareholding + 1)_{t}$		-0.001***	-0.002***				
$2\pi (2\pi a) \cos(a\pi b) g + 2\pi$		(-4.52)	(-7.90)				
Ln(Board size)+	-0.087***	-0.084***	-0.122***				
	(-9.19)	(-7.25)	(-1195)				
$Duality(0/1)_{\pm}$	0.003	-0.021***	-0.016***				
D $ddivig(0/1)_l$	(0.60)	(-5.46)	(-3.04)				
Board composition (ind%)+	-0.171***	0.097***	0 190***				
Doard composition(thavo)	(-5.69)	(2.64)	(5.00)				
State-owned $(0/1)$	-0.025***	0.008**	0.029***				
\mathcal{L}	(-6.89)	(2.06)	(7.28)				
Largest shareholder($\%$).	0.037***	0.001	-0.001				
Eargeet enter enotaer (70)	(3.52)	(0.06)	(-0.11)				
Ln(Total Assets)	-0.009***	-0.010***	-0.009***				
	(-5.41)	(-5.48)	(-5.68)				
Book leverage (%)	-0.014*	0.023**	0.022**				
$Boon reverage(70)_l$	(-1.65)	(2.18)	$(2 \ 37)$				
BOA	-0.047	-0.089**	-0.110***				
110/14	(-1.50)	(-2, 20)	(-3.22)				
Vear effects	(-1.50) Vec	(-2.23) Voc	(-5.22) Vec				
Industry effects	Ves	Ves	Ves				
Number of directorships effects	Ves	Ves	Ves				
R^2	0 161	0.065	0.117				
Observations	41.055	0.000 99.655	/1 120				
Obset various	41,000	44,000	41,100				

Table 8: Future directorships through network prominence

This table reports the coefficients associated with $Prominence_t$ in explaining board of directors' ability to gain future directorships. The dependent variable is $Directorship_{t+1}$, the number of directorships a director gains at year t+1. Table 15 provides all variable definitions. The regressions control for year fixed effects. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent variable= $Directorship_{t+1}$					
	Independent director	endent director				
		Executive director	Non-executive director			
Explanatory variables	(1)	(2)	(3)			
Prominence.	20.052***	6.025***	3/ 158***			
1 romanchicet	(14.41)	(7.02)	(10.55)			
$W_{oman}(0/1)$	(14.41)	0.006	0.094***			
woman(0/1)	(2.07)	(1.98)	(3.024)			
1.00	(-2.07)	(1.20)	(-3.99)			
Age_t	(0.029^{+++})	-0.002	-0.003			
4 2	(8.42)	(-0.95)	(-1.32)			
Age_t^{-}	-0***	0				
-	(-10.36)	(0.93)	(0.97)			
$Tenure_t$	-0.015***	0.002***	0.002***			
	(-7.05)	(5.65)	(2.81)			
Busy director $(0/1)_t$	1.958^{***}					
	(86.91)					
Political $background(0/1)$;	0.140^{***}	0.023^{***}	0.082^{***}			
	(15.63)	(4.51)	(12.88)			
$Ln(comp+1)_t$	0.032***	-0	0			
	(24.63)	(-0.31)	(0.10)			
Number of meetings _t	-0.003***	0.001	-0.001			
<i>.</i>	(-2.97)	(1.60)	(-1.35)			
$CEO/COB(0/1)_{t}$	(,)	-0	-0.032***			
010/0010		(-0.11)	(-6.50)			
Related director $(0/1)$,		-0.009***	0.033***			
		(-3, 53)	(6.63)			
In(Shareholding + 1)		0.001***	0.003***			
$Ln(Shur enouning + 1)_t$		(4.61)	(10.99)			
Im (Boomd size)	0.91/***	(-4.01)	(-10.22)			
$Ln(Boara size)_t$	-0.514	-0.048	-0.401			
$\mathbf{D} = 1 1 1$	(-13.22)	(-5.44)	(-19.88)			
$Duality(0/1)_t$	0.019**	0.009***	0.021^{***}			
	(1.98)	(2.99)	(3.25)			
Board composition(ind%);	-0.294^{***}	-0.067***	-0.374***			
	(-4.12)	(-3.06)	(-8.59)			
$State-owned(0/1)_t$	0.029^{***}	-0.007***	0.009			
	(3.35)	(-2.63)	(1.64)			
Largest shareholder $(\%)_t$	0.104^{***}	-0.002	-0.022			
	(4.27)	(-0.22)	(-1.54)			
$Ln(Total \ Assets)_t$	-0.016***	-0	-0.004*			
	(-4.73)	(-0.16)	(-1.66)			
Book $leverage(\%)_t$	0.062***	-0.003	-0.016*			
5 ()	(3.41)	(-0.54)	(-1.66)			
ROA_t	0.268***	0.068***	0.197***			
~	(4.00)	(3.23)	(5.59)			
Year effects	Yes	Yes	Yes			
R^2	0.589	0.020	0.192			
Observations	26.846	20,344	33,326			

Table 9: Compensation: Labor mobility through network prominence

This table reports the coefficients associated with the interaction term between $Prominence_{t-1}$ and $Turnover(\%)_{t-1}$ in explaining aggregated director compensation. The dependent variable is $Ln(Total\ comp+1)_t$, the logarithm of aggregated compensation that a director collects from all firms at year t. Table 15 provides all variable definitions. The regressions control for year and director fixed effects. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Donondor	t unviable $I_n(T)$	l = 1					
	Independent director N_{en} is dependent director							
	Independent director	r Non-indep	endent director					
Explanatory variables	(1)	Executive director (2)	Non-executive director (3)					
$Turnover(\%)_{t-1}$	-1.226***	-4.552***	-0.469					
	(-5.37)	(-2.80)	(-0.89)					
$Prominence_{t-1}$	8.669^{***}	-6.716	-11.438**					
	(2.86)	(-1.12)	(-2.25)					
$Prominence_{t-1} * Turnover(\%)_{t-1}$	34.019^{***}	148.904	11.093					
	(2.94)	(1.64)	(0.28)					
$Directorship_t$	0.070^{**}	-0.551^{**}	1.139^{***}					
	(2.19)	(-2.53)	(6.59)					
Age_t	0.244^{*}	0.046	-0.032					
	(1.90)	(0.37)	(-0.20)					
Age_t^2	-0.002***	-0	-0					
	(-3.22)	(-0.45)	(-0.24)					
$Tenure_t$	-0.087***	-0.008	0.025					
	(-4.87)	(-0.09)	(0.31)					
Political background $(0/1)_t$	-0.197	0.167	0.371					
	(-0.45)	(1.03)	(0.38)					
$Ln(CEO\ compensation)_t$	0.010^{*}	0.064^{***}	0.006					
	(1.69)	(3.53)	(0.76)					
$CEO/COB(0/1)_t$		0.970^{***}	1.514^{***}					
		(6.94)	(7.92)					
Related director $(0/1)_t$		-0.533***	-0.578***					
		(-3.39)	(-5.77)					
$Ln(Shareholding+1)_t$		0.030***	0.034*					
		(2.78)	(1.72)					
$Ln(Board \ size)_t$	0.509^{**}	0.155	0.366					
	(2.20)	(0.56)	(1.03)					
$Duality(0/1)_t$	-0.040	-0.030	0.085					
	(-0.53)	(-0.27)	(0.66)					
Board composition $(ind\%)_t$	2.027***	-0.406	-0.680					
1	(3.34)	(-0.63)	(-0.70)					
Number of meetings _t	-0.005	-0.016*	-0.001					
v 0-	(-0.65)	(-1.68)	(-0.16)					
$Ln(CEO\ compensation)_t$	0.010^{*}	0.064***	0.006					
	(1.69)	(3.53)	(0.76)					
$State-owned(0/1)_t$	-0.064	-0.144	-0.396*					
	(-0.59)	(-0.69)	(-1.66)					
Largest shareholder $(\%)_t$	0.334	-0.537	0.765					
	(1.21)	(-0.90)	(1.22)					
$Ln(Total \ Assets)_t$	-0.038	0.278***	0.402^{***}					
(),	(-0.85)	(2.69)	(3.86)					
Book $leverage(\%)_t$	0.059	-0.179	0.363					
5 (· ·) ·	(0.36)	(-0.54)	(1.13)					
$Cash \ holdings(\%)_t$	0.001	-0.012	-0.049					
5 (1-),	(0.01)	(-0.47)	(-0.15)					
ROA_{t-1}	0.021	1.602***	0.906*					
0 I	(0.05)	(3.30)	(1.85)					
Stock volatility _{t-1}	-0.020	-0.205	-0.275					
	(-0.23)	(-0.87)	(-1.40)					
Year effects	Yes	Yes	Yes					
Director effects	Yes	Yes	Yes					
R^2	0.587	0.711	0.914					
Observations	29,722	22,335	36,935					

Table 10: Robustness: Director compensation using firm and director fixed effects

This table reports the coefficients associated with $Prominence_{t-1}$ in explaining director compensation when firm or director fixed effects are included. In columns (1), (3) and (6), the dependent variable is $Paid(0/1)_t$, a dummy variable that equals to 1 if a board of director receives zero compensation at year t and 0 otherwise. In columns (2), (4) and (6), the dependent variable is $Ln(Comp + 1)_t$, the logarithm of compensation for a director in a firm at year t. In panel A, the regressions control for firm, year, industry, and number of directorships fixed effects. In panel B, the regressions control for director, year, industry, and number of directorships fixed effects. This table shares the same control variables as those in Table 6. Table 15 provides all variable definitions. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and firm or director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Indepen	dent director		Non-independent director				
			Execut	tive director	Non-executive director			
	$Paid(0/1)_t$	$Ln(Comp+1)_t$	$Paid(0/1)_t$	$Ln(Comp+1)_t$	$Paid(0/1)_t$	Ln(Comp+1)		
Explanatory variables	(1)	(2)	(3)	(4)	(5)	(6)		
Panel A. Firm fixed effects								
$\overline{Prominence_{t-1}}$	1.107***	15.061^{***}	-0.683	-4.149	0.037	0.381		
	(6.31)	(7.60)	(-1.39)	(-0.61)	(0.08)	(0.07)		
Control variables	Yes	Yes	Yes	Yes	Yes	Yes		
Year effects	Yes	Yes	Yes	Yes	Yes	Yes		
Number of directorships effects	Yes	Yes	Yes	Yes	Yes	Yes		
Firm effects	Yes	Yes	Yes	Yes	Yes	Yes		
R^2	0.199	0.213	0.285	0.394	0.583	0.577		
Observations	$45,\!687$	45,687	24,700	24,700	43,812	43,812		
Panel B. Director fixed effects								
$\overline{Prominence_{t-1}}$	1.473***	20.970***	-0.639*	-4.394	-1.167***	-11.635**		
	(6.00)	(7.06)	(-1.77)	(-0.91)	(-2.60)	(-2.32)		
Control variables	Yes	Yes	Yes	Yes	Yes	Yes		
Year effects	Yes	Yes	Yes	Yes	Yes	Yes		
Number of directorships effects	Yes	Yes	Yes	Yes	Yes	Yes		
Industry effects	Yes	Yes	Yes	Yes	Yes	Yes		
Director effects	Yes	Yes	Yes	Yes	Yes	Yes		
R^2	0.331	0.348	0.678	0.728	0.882	0.890		
Observations	$45,\!687$	$45,\!687$	24,700	24,700	43,812	43,812		

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Table 11: Robustness: Director turnover using firm and director fixed effects

This table reports the coefficients associated with $Prominence_t$ in explaining director turnover when firm or director fixed effects are included. The dependent variable is $Turnover(0/1)_t$, a dummy variable that equals to 1 for a director in year t if he or she does not appear in the annual report in year t + 1 and 0 otherwise. In Panel A, the regressions control for firm, year, industry, and number of directorships fixed effects. In Panel B, the regressions control for director, year, industry, and number of directorships fixed effects. This table shares the same control variables as those in Table 7. Table 15 provides all variable definitions. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and firm or director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent variable= $Turnover(0/1)_t$					
	Independent director	Non-indepe	endent director			
		Executive director	Non-executive director			
Explanatory variables	(1)	(2)	(3)			
Panel A. Firm fixed effects						
Prominence _t	5.680^{***}	6.830***	6.707***			
	(12.10)	(7.12)	(7.77)			
Control variables	Yes	Yes	Yes			
Year effects	Yes	Yes	Yes			
Number of directorships effects	Yes	Yes	Yes			
Firm effects	Yes	Yes	Yes			
R^2	0.247	0.198	0.207			
Observations	41,055	$22,\!655$	41,180			
Panel B. Director fixed effects						
$Prominence_t$	7.069***	5.997^{***}	8.064***			
	(9.84)	(5.78)	(8.36)			
Control variables	Yes	Yes	Yes			
Year effects	Yes	Yes	Yes			
Number of directorships effects	Yes	Yes	Yes			
Industry effects	Yes	Yes	Yes			
Director effects	Yes	Yes	Yes			
R^2	0.429	0.602	0.602			
Observations	41,055	$22,\!655$	41,180			

Table 12: Robustness: Future directorships using director fixed effects

This table reports the coefficients associated with $Prominence_t$ in explaining directors' ability to gain future directorships when director fixed effects are included. The dependent variable is $Directorship_{t+1}$, the number of directorships a director gains at year t+1. Table 15 provides all variable definitions. The regressions control for year and director fixed effects. This table shares the same control variables as those in Table 8. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent variable= $Directorship_{t+1}$		
	Independent director	Non-indep	endent director
		Executive director	Non-executive director
Explanatory variables	(1)	(2)	(3)
$Prominence_t$	2.122*	1.139	3.545^{***}
	(1.65)	(1.47)	(3.59)
Control variables	Yes	Yes	Yes
Year effects	Yes	Yes	Yes
Director effects	Yes	Yes	Yes
R^2	0.836	0.774	0.857
Observations	$26,\!847$	$20,\!344$	$33,\!326$

Table 13: Related Directors: Turnover

This table reports the coefficients associated with the interaction term between $Prominence_t$ and $Related \ director(0/1)_t$ in explaining non-independent director turnover. The dependent variable is $Turnover(0/1)_t$, a dummy variable that equals to 1 for a director in year t if he or she does not appear in the annual report in year t + 1 and zero otherwise. In Panel A, the regressions control for firm, year, industry, and number of directorships fixed effects. In Panel B, the regressions control for director, year, industry, and number of directorships fixed effects. This table shares the same control variables as those in Table 7. Table 15 provides all variable definitions. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and firm or director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent varia	$ble=Turnover(0/1)_t$
	Non-indep	endent director
	Executive director	Non-executive director
Explanatory variables	(1)	(2)
Panel A. Firm fixed effects		
$Prominence_t$	7.460***	13.700***
	(7.04)	(8.83)
Related director $(0/1)_t$	-0.030***	-0.175***
	(-3.47)	(-20.38)
$Prominence_t * Related director(0/1)$	-3.493**	-10.095***
	(-2.03)	(-7.63)
Control variables	Yes	Yes
Year effects	Yes	Yes
Number of directorships effects	Yes	Yes
Firm effects	Yes	Yes
R^2	0.199	0.214
Observations	$22,\!655$	41,180
Panel B. Director fixed effects		
Prominence _t	6.757***	13.294***
	(5.79)	(7.34)
Related director $(0/1)_t$	-0.072***	-0.267***
	(-4.63)	(-19.04)
$Prominence_t * Related director(0/1)$	-4.209**	-7.661***
	(-2.51)	(-4.43)
Control variables	Yes	Yes
Year effects	Yes	Yes
Number of directorships effects	Yes	Yes
Industry effects	Yes	Yes
Director effects	Yes	Yes
R^2	0.602	0.605
Observations	$22,\!655$	41,180

Table 14: Re	elated Directors:	Future	directors	hips
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This table reports the coefficients associated with the interaction term between $Prominence_t$ and $Related \ director(0/1)_t$ in explaining non-independent directors' ability to gain future directorships. The dependent variable is $Directorship_{t+1}$, the number of directorships a director gains at year t+1. Table 15 provides all variable definitions. The regressions control for year and director fixed effects. This table shares the same control variables as those in Table 8. In parentheses are t-statistics based on standard errors adjusted for heteroskedasticity and director clustering. Superscripts *, ** and *** denote significance at the 10%, 5% and 1% levels, respectively.

	Dependent variable= $Directorship_{t+1}$ Non-independent director	
	Executive director	Non-executive director
Explanatory variables	(1)	(2)
Prominence _t	1.280	-0.127
	(1.54)	(-0.08)
Related director $(0/1)_t$	-0.003	0.020
	(-0.33)	(1.58)
$Prominence_t * Related director(0/1)$	-0.781	4.824**
	(-0.53)	(2.56)
Control variables	Yes	Yes
Year effects	Yes	Yes
Director effects	Yes	Yes
R^2	0.774	0.858
Observations	20,344	33,326

A Appendix

The appendix provides variable definitions for dependent variables, variables of interest, and control variables.

Variable	Description
Dependent Variables	
$Paid(0/1)_t$	The dummy variable equals to 1 if a board of director is paid in a firm in the year t and 0 otherwise.
$Ln(Comp+1)_t$	The logarithm of 1+compensation that a board of director receives from a firm in the year t .
$Ln(Total\ comp+1)_t$	The logarithm of aggregated 1+compensation that a board of director collects from all firms in the year t .
$Turnover(0/1)_t$	The measure of director turnover activity in the year t , which is a dummy variable equals to 1 for an observation in year t if a board of director does not appear in the annual report in the year $t + 1$ and 0 otherwise.
$Directorship_{t+1}$	The number of directorships a board of director gains in the year $t + 1$.
Variables of interest	
$Prominence_t$	The eigenvector centrality of a board of director in the year t .
$Prominence_{t-1}$	The eigenvector centrality of a board of director in the year $t - 1$.
$Turnover(0/1)_{t-1}$	The measure of director turnover activity in the year $t - 1$, which is a dummy variable equals to 1 for an observation in the year $t - 1$ if a board of director does not appear in the annual report in the year t and 0 otherwise.
$Turnover(\%)_{t-1}$	The ratio of turnover in the year $t - 1$, which equals to $Turnover(0/1)_{t-1}$ scaled by the num- ber of directorships in the year $t - 1$.

Variable	Description
Control variables	
Woman(0/1)	The dummy variable equals to 1 if a board of director is female and 0 otherwise.
Age_t	The age of a board of director in the year t .
Age_t^2	The square of age of a board of director in the year t .
$Tenure_t$	The number of years that a board of director has served as a board of director in the year t .
Busy director $(0/1)_t$	The dummy variable equals to 1 if an independent director has more than two directorships in the year t and 0 otherwise.
Political background $(0/1)_t$	The dummy variable equals to 1 if if a board of director had or has an administrative ranking in the Chinese political system in the year t and 0 otherwise.
Number of $meetings_t$	The number of board meetings for a firm in the year t .
$Ln(CEO\ compensation)_t$	The logarithm of CEO compensation in the year t .
$CEO/COB(0/1)_t$	The dummy variable equals to 1 if a board of director is CEO or COB in the year t and 0 otherwise.
Related $director(0/1)_t$	The dummy variable equals to 1 if a board of director holds a position in the controlling firm in the year t and 0 otherwise.
$Ln(Shareholding+1)_t$	The logarithm of a board of director's share holding plus one in the year t .
$Ln(Board\ size)_t$	The logarithm of the number of directors on board in the year t .
$Duality(0/1)_t$	The dummy variable equals to 1 if the CEO and chairman is the same person in the year t and 0 otherwise.
Board composition $(ind\%)_t$	The ratio of independent directors on board in the year t .

Variable	Description
$State-owned(0/1)_t$	The dummy variable equals to 1 if the firm is state-owned in the year t and 0 otherwise.
Largest shareholder $(\%)_t$	The percentage of share holding by the largest shareholders in the year t .
$Ln(Total \ Assets)_t$	The logarithm of total assets in the year t .
Book $leverage(\%)_t$	The book value of total debts scaled by book value of total assets in the year t .
$Cash\ holdings(\%)_t$	The cash and marketable security divided by the book value of total assets in the year t .
ROA_{t-1}	The net income scaled by the book value of total assets in the year $t - 1$.
Stock volatility $_{t-1}$	The variance of monthly stock returns in the year $t - 1$.
$Ln(comp+1)_t$	The logarithm of 1 plus the compensation that a board of director receives from a firm in the year t .
ROA_t	The net income scaled by the book value of tota assets in the year t .