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Institutions and Firm Performance: The Moderating Role of Founder's Social Ties

Preliminary draft

This paper explores the moderating effects of a founder's political ties and managerial ties on the relationship between formal institutions development and firm performance in China. Leveraging a unique sample of 428 newly listed firms on Growth Enterprise Market in Shenzhen Stock exchange between 2009 and 2016, we found that the founder's political ties enhances the relationship between marketization/legal framework and firm performance while the founder's managerial ties only positively moderate marketization and firm performance. Our findings show that the importance role of the founder's social ties even under the improved formal institutions (level of marketization and legal framework), which reveals the essential role of social ties in emerging economies.

INTRODUCTION

The institution-based view has increasingly become a driving perspective in international business research on emerging economies (Peng et al. 2008). Institution-based view addresses that firm-level activities are a reflection of the formal and informal constraints that managers confront with. Given the development of institution-based view in recent decades (Ingram and Silverman, 2002; Meyer and Peng 2005; Peng, 2002; Peng, Ahlstrom, Carraher, & Shi, 2017; Peng, Wang, and Jiang, 2008), there is a general consensus about proposition of “both formal and informal institutions matter” (Chan, Makino, & Isobe, 2010). The interplay between formal and informal institutions and their joint effects on firm’s performance in the context of emerging economies are, however, relatively under-researched (Holmes, Miller, Hitt, & Salmador, 2013). While considerable insight has been derived from the substitutive nature of formal and informal institutions (Peng, 2002; Peng et al. 2008; Xin & Pearce, 1996), it tends to understate the ways informal institutions interact with formal institutions as informal institutions may either improve or undermine the function of formal institutions (Estrin & Prevezer, 2011).

Social ties, as informal institutions, can shape organizational actions (Granovetter, 1985). Drawing from upper echelon theory (Hambrick & Mason, 1984) and social network theory (Burt, 1997; Granovetter, 1983), a large number of studies have confirmed the effects of managers’ social ties on firm’s strategic choices and performance (Haveman, Jia, Shi, & Wang, 2017; Li & Zhang, 2007; Li, Zhou, & Shao, 2009; Peng & Luo 2000; Sun, Mellahi, Wright, & Xu, 2015). Social ties are of special significance in emerging economies where the functioning of formal market-supporting institutions is not well-enforced.

This paper endeavors to answer the following question: how do the entrepreneurial founder’s social ties interact with different formal institutions in influencing the firm’s performance in China? Our analysis focuses on newly listed firms, which are undergoing a major transition from an entrepreneurial firm to a public listed firm. Conventional view suggests that a firm’s founder should cede control to professional managers as the firm’s growth requires extra expertise and resources of its founder can possibly provide (Chahine, Filatotchev, & Zahra, 2011; Daily & Dalton, 1992; Gedajlovic, Lubatkin, & Schulze, 2004; Zahra & Filatotchev, 2004). However, it has

been found that in the majority of newly listed firms in emerging economies, founders typically demand more control and continue to lead the firm either as a CEO or a chairman after the initial public offering (Wang & Song, 2016; Young, Peng, Ahlstrom, Bruton, & Jiang, 2008). The widespread prevalence indicates the distinctive role of the founder in emerging economies in leading the newly listed firm compared to the counterparts in developed economies.

This paper makes two contributions. First, we contribute to the institution-based view by proposing the contingent effects of formal institutions (i.e. government-based and legal-based institutions) on firm performance based upon informal institutions. Institution-based view emphasizes the direct effects of either institution on the firm's strategic choices and performance (Peng, 2003; Li, Poppo, & Zhou, 2008). Instead of viewing the firm as an actor who endeavors to fill in the institutional voids with informal institutions, we advocate that political ties and managerial ties, as informal institutions, improve the function of the underdeveloped formal institutional framework.

Second, we contribute to social network theory by explaining the role of social ties in interpreting the environment within emerging economies. Social network theory suggests that social ties lie beyond formal institutional legislation (Granovetter, 1985) and addresses the accessible resources through an actor's network (Ellis, 2011; Ma, Huang, & Shenkar, 2011; Nahapiet & Ghoshal, 1998; Ozgen & Baron, 2007). Social ties have been consistently used to gain access to valuable information and recognize entrepreneurial opportunities in the environment where formal institutions are deficient or absent (Peng, 2003; Peng & Luo, 2000). Though scholars recognized the important role of social ties, the question 'under what circumstance social ties matter' and remains debated (Chen, Chen, & Huang, 2013; Zhang & Zhang, 2006). Gualti and Higgins (2003) argue that the value of ties may change by context and it is essential to understand the role of social ties within the changing formal institutional environment in emerging economies.

HYPOTHESIS DEVELOPMENT

Economic institutionalism has recognized that there are "human devised constraints" behind the firm's practices (North, 1990). Researchers have recognized that

institutional frameworks influence what firm strategies are conceivable and legitimate (Peng et al., 2008; Wright, Filatotchev, Hoskisson, & Peng, 2005). Rather than considering institutions as a background, institution-based view attributes firms' diverse strategies and performance to "humanly-devised constraints" (Peng et al., 2009) and explored the effects of both formal and informal institutions on firms' strategic actions (Holmes et al., 2013; Ingram & Silverman, 2002; Narayanan & Fahey, 2005).

The major role of institutions is to reduce uncertainty by establishing formal and informal constraints to regulate a firm's actions (North, 1990). Formal institutions represent the codified and legally-bound rules that provide authoritative behavioral guidelines to a firm's behavior (Scott, 2013). Informal institutions refer to socially constructed and uncodified rules, which reflect the convention, culture, and norms in a society (North, 1990). Informal institutions embody shared values and define what actions are ethical and socially acceptable (Peng et al., 2008; Helmke & Levitsky, 2004).

Peng (2002) and Peng, Wang, and Jiang (2008) advocate a firm's strategic choices and performances are the outcomes of the interactions between formal/informal institutions and firms. Institution-based view addresses the substitutive nature between formal and informal institutions and states that in situations whereby formal institutions are weak, informal institutions rise to play a larger role in driving firm strategies and performance (Peng, Sun, Pinkham, & Chen, 2009). In other words, indistinct or absent formal institutional boundaries in emerging economies create institutional voids (Khanna & Palepu, 1999). Firms in emerging economies normally rely on informal institutions (Puffer, McCarthy, & Boisot, 2010), such as political ties (Li, Poppo, & Zhou, 2008; Li & Zhang, 2007; Sun, Mellahi, Wright, & Xu, 2015), managerial ties or both (Li, Zhou, & Shao, 2009; Peng & Luo, 2000). The importance of informal institutions in emerging economies, however, may eventually decline as formal institutions become more developed (Hoskisson, Eden, Lau, & Wright, 2000).

Informal institutions can assist formal institutions' influence over the firm's activities (Estrin & Prevezer, 2011). Informal institutions can solve the problem by lowering information, monitoring, and enforcement costs, which makes informal institutions as

a possible solution to a more complex exchange under deficient and malfunctioned formal institutional environment.

There is a broad consensus that well-defined formal institutions lay the foundation for firm's development. In this paper, however, we argue that the formal institutions' influence depends on each individual firm's social ties (see Figure 1). Instead of viewing informal institutions (i.e. social ties) as substitute forces of formal institutions, we assert that a newly listed firm actively interprets the formal institutions according to its founder's social ties.

H1: The founder's political ties, as informal institutions, positively moderate the relationship between marketization/legal framework and firm performance.

H2: The founder's managerial ties, as informal institutions, positively moderate the relationship between marketization/legal framework and firm performance.

DATA AND METHODOLOGY

We manually collected founder-related data from 511 firms listed on the Growth Enterprise Market (GEM) on the Shenzhen Stock Exchange. The sample includes all firms underwent initial public offering (IPO) from 2009 to 2016. Following previous studies (e.g. Daily, Certo, Dalton, & Roengpitya., 2003; Deeds, Mang, & Frandsen, 2004; Lester, Certo, Dalton, Dalton, & Cannella, 2006), founder-related data are primarily obtained from the IPO prospectus. The IPO prospectus is part of the requirements for listing and most of the prospectuses have a standard format. The detailed information about the founder or founding team makes the IPO prospectus the fundamental document for this research. Additional data regarding firm's financial performance, productivity, and institutional factors covering the period 2009-2016 were sourced from the China Stock Market & Accounting Research (CSMAR) database and the China Statistical Yearbook and National Economic Research Institute (NERI) Index of Marketization of China's Provinces 2016 Report.

To construct our unique dataset about the founder(s), we adopted a multi-stage sample collecting procedure. The most challenging task was to distinguish a firm with the founder(s) from those firms without the founding team. Some firms were originally established by governments or reformed from state-owned firms. In other cases, the

founders had retired, resigned, or died. The selection process was based on three criteria: (1) the existence of a founder in the history section of the prospectus, (2) the founder holds a position on the board after the IPO, and (3) the founder holds share ownership after IPO flotation. We triangulated the information from the IPO prospectus with each company's website and other published news to ensure that founder's information was accurate and firms without founding teams were eliminated from the sample. This process left us with 428 firms, out of the initial 511, with the founder(s).

Dependent variable.

Our dependent variable, firm performance is measured by the return of assets (ROA) defined as the ratio of net income to total assets. This performance measure is widely used in management studies (Jaskiewicz, Block, Miller, & Combs, 2017). The data is drawn from the CSMAR database.

Independent variables.

Founder's social ties. We measure founder's social ties by distinguishing the founder's managerial ties with political ties (Li & Zhang, 2007; Li, Zhou, & Shao, 2009; Peng & Luo, 2000; Sun et al., 2015). The managerial ties were measured by the sum of executive positions and board memberships held by the founder outside the focal firm (Filatotchev, 2006). If there are multiple founders, we take the sum of these positions. The importance of the firm's political ties in emerging counties has been investigated in large numbers of studies (e.g. Li et al., 2008; Li, He, Lan, & Yiu, 2012). The effect of political ties was measured as a dummy variable, which is coded as 1 if the founder has political connections - was the member of the National People's Congress or the member of Chinese People's Political Consultative Conference, or worked in the local or central government department or military department, and 0 otherwise.

We emphasize that importance the sub-national (i.e. provincial) level of formal institutions with two different dimensions: (i) the level of marketisation which measures government allocation of resource, the level of government intervention in the business, and government size and (ii) legal framework development which includes the measures of legal institution development, legal environment development and the level of intelligent property protection.

Control variables

We include a number of control variables. We included founder's age, founder-CEO status, board independence, firm size, firm age. In addition, we also control for the time-specific, industry-specific and geographic factors by introducing three sets of dummy variables. We provide the summary statistics in Table 1, indicating that most of the observations are within reasonable limits (i.e. no outliers). Also, the pairwise correlation coefficients show no serious issues of multicollinearity among the variables.

[Insert Table 1 about here]

RESULTS

We present our empirical results obtained by using OLS estimation in Table 2-5. In Table 2, the results are estimated using OLS and the dependent variable is ROA. The interaction results indicate that the founder's political ties and managerial ties show even more compelling roles along with formal institutions' development.

[Insert Table 2-5 about here]

[Insert Figure 1-3 about here]

In order to examine the consistency of the results, we conduct a set of robustness tests. We use ROE as an alternative measure for firm performance. We obtain board similar results shown in Table 3. The main difference of the results of Table 3 compared to Table 2 is that effect of managerial ties appears to be statistically significant and positive. The effect of other explanatory variables, in terms of the sign and significance, is the same.

Also, we apply alternative empirical methods using DID model and FEGLS estimation to check the robustness of the results. The results are essentially unchanged, which are shown in Tables 4 and 5.

REFERENCE

- Bamford, C. E., G. D. Bruton, G. D., & Hinson, Y. L. 2006. Founder/chief executive officer exit: A social capital perspective of new ventures. *Journal of Small Business Management*, 44(2): 207-220.
- Burt R. 1997. The contingent value of social capital. *Administrative Science Quarterly* 42: 339-365.

- Chahine S, Filatotchev I, & Zahra SA. 2011. Building perceived quality of founder-involved IPO firms: Founders' effects on board selection and stock market performance. *Entrepreneurship: Theory and Practice* **35**(2): 319-335.
- Chan CM, Makino S, Isobe T. 2010. Does subnational region matter? Foreign affiliate performance in the United States and China. *Strategic Management Journal* **31**(11): 1226-1243.
- Chen CC, Chen XP, Huang S. 2013. Chinese Guanxi: An integrative review and new directions for future research. *Management and Organization Review* **9**(1): 167-207.
- Chen WR, Miller KD. 2007. Situational and institutional determinants of firms' R&D search intensity. *Strategic Management Journal* **28**(4): 369 -381.
- Coad A, Segarra A, Teruel M. 2016. Innovation and firm growth: Does firm age play a role? *Research Policy* **45**(2): 387-400.
- Crossland C, Hambrick DC. 2011. Differences in managerial discretion across countries: How nation-level institutions affect the degree to which CEOs matter. *Strategic Management Journal* **32**(8): 797-819.
- Daily CM, Certo ST, Dalton DR, Roengpitya R. 2003. IPO underpricing: A meta-analysis and research synthesis. *Entrepreneurship: Theory and Practice* **27**(3): 271-295.
- Daily C, & Dalton D. 1992. Financial performance of founder-managed versus professionally managed small corporations. *Journal of Small Business Management* **30**(2): 25-34.
- Deeds DL, Mang PY, Frandsen ML. 2004. The influence of firms' and industries' legitimacy on the flow of capital into high-technology ventures. *Strategic Organization* **2**(1): 9-34.
- Delmar, F., & Shane, S. 2004. Legitimizing first - Organizing activities and the survival of new ventures. *Journal of Business Venturing*, 19: 385-410.
- Dencker, J. C., Gruber, M. 2015. The effects of opportunities and founder experience on new firm performance. *Strategic Management Journal*, 36(7): 1035-1052.
- Doh J, Rodrigues S, Saka-Helmhout A, Makhija M. 2017. International business responses to institutional voids. *Journal of International Business Studies* **48**(3): 293-307.
- Eddleston KA. 2008. Commentary: The prequel to family firm culture and stewardship: The leadership perspective of the founder. *Entrepreneurship: Theory and Practice* **32**(6): 1055-1061.
- Ellis PD. 2011. Social ties and international entrepreneurship: Opportunities and constraints affecting firm internationalization. *Journal of International Business Studies* **42**(1): 99-127.
- Estrin S, Prevezer M. 2011. The role of informal institutions in corporate governance: Brazil, Russia, India and China compared. *Asia Pacific Journal of Management* **28**(1): 41-67.
- Gedajlovic E, Lubatkin MH, & Schulze WS. 2004. Crossing the threshold from founder management to professional management: A governance perspective. *Journal of Management Studies* **41**(5): 899-912.
- Granovetter M. 1983. The strength of weak ties: A network theory revisited. *Sociological Theory* **1**:201-233.
- Granovetter M. 1985. Economic action and social structure: The problem of embeddedness. *American Journal of Sociology* **91**(3): 481-510.

- Gulati R, Higgins MC. 2003 Which Ties Matter When? The Contingent Effects of Interorganizational Partnerships on IPO Success. *Strategic Management Journal* **24**(2): 127-144.
- Hambrick DC, Mason PM. 1984. Upper echelons: The organization as a reflection of its top managers. *Academy of Management Review* **9**: 193-206.
- Haveman HA, Jia N, Shi J, Wang Y. 2017. The dynamics of political embeddedness in China. *Administrative Science Quarterly* **62**(1): 67-104.
- Helmke G, Levitsky S. 2004. Informal institutions and comparative politics: A research agenda. *Perspectives on Politics* **2**(4): 725-740
- Hoang, H., & Gimeno, J. 2010. Becoming a founder How founder role identity affects entrepreneurial transition and persistence in founding. *Journal of Business Venturing*, **25**: 41-53.
- Holmes Jr RM, Miller T, Hitt MA, Salmador MP. 2013. The interrelationships among informal institutions, formal institutions, and inward foreign direct investment. *Journal of Management* **39**(2): 531-566.
- Hoskisson RE, Eden L, Lau CM, Wright M. 2000. Strategy in emerging economies. *Academy of Management Journal* **43**(3): 249–267.
- Ingram P, Silverman B. 2002. *The New Institutionalism in Strategic Management*. Elsevier: Oxford.
- Jaskiewicz P, Block JH, Miller D, Combs JG. 2017. Founder versus family owners' impact on pay dispersion among non-CEO top managers: Implications for firm performance. *Journal of Management* **43**(5): 1524-1552.
- Jayaraman N, Khorana A, Nelling E, Covin J. 2000. CEO founder status and firm financial performance. *Strategic Management Journal* **21**: 1215-1224.
- Joseph J, Ocasio W, McDonnell MH. 2014. The structural elaboration of board independence: Executive power, institutional logics, and the adoption of CEO-only board structures in US corporate governance. *Academy of Management Journal* **57**(6): 1834-1858.
- Khanna T, Palepu K. 1997. Why focused strategies may be wrong for emerging markets. *Harvard Business Review* **75**(4): 41–51.
- Kwon SW, Adler PS. 2014. Social capital; Maturation of a field of research. *Academy of Management Review* **39**(4): 412-422.
- Lee, CL, Wu HC. 2016. How do slack resources affect the relationship between R&D expenditures and firm performance? *R&D Management* **46**(S3): 958-978.
- Lee, D.Y., & Tsang, E. W. K. 2001. The effects of entrepreneurial personality, background and network activities on venture growth. *Journal of Management Studies*, **38**, 583–602.
- Lester RH, Certo ST, Dalton CM, Dalton DR, Cannella, AA. 2006. Initial public offering investor valuations: An examination of top management team prestige and environmental uncertainty. *Journal of Small Business Management* **44**(1): 1-26.
- Li JJ, Poppo L, Zhou KZ. 2008. Do managerial ties in China always produce value? Competition, uncertainty, and domestic vs. foreign firms. *Strategic Management Journal* **29**(4): 383-400.
- Li H, Zhang Y. 2007. The role of managers' political networking and functional experience in new venture performance: Evidence from China's transition economy. *Strategic Management Journal* **28**(24): 791-804.
- Li W, He A, Lan H, Yiu D. 2012. Political connections and corporate diversification in emerging economies: Evidence from China. *Asia Pacific Journal of Management* **29**(3): 799-818.

- Li JJ, Poppo L, Zhou KZ. 2008. Do managerial ties in China always produce value? Competition, uncertainty, and domestic vs. foreign firms. *Strategic Management Journal* **29**(4): 383-400.
- Li JJ, Zhou KZ, Shao AT. 2009. Competitive position, managerial ties, and profitability of foreign firms in China: An interactive perspective. *Journal of International Business Studies* **40**: 339–352.
- Li JT, Qian C. 2013. Principal-principal conflicts under weak institutions: A study of corporate takeovers in China. *Strategic Management Journal* **34**(4): 498-508.
- Ling Y, Zhao H, Baron RA. 2007. The influence of founder-CEO's personal values on firm performance: Moderating effects of firm age and size. *Journal of Management* **33**(5): 673-696.
- Ma R, Huang Y-C, Shenkar O. 2011. Social networks and opportunity recognition: A cultural comparison between Taiwan and The United States. *Strategic Management Journal* **32**(1): 1183-1205.
- Meyer KE, Estrin S, Bhaumik SK, Peng MW. 2009. Institutions, resources, and entry strategies in emerging economies. *Strategic Management Journal* **30**(1): 61-80.
- Meyer KE, Peng MW. 2016. Theoretical foundations of emerging economy business research. *Journal of International Business Studies* **47**(1): 3-22.
- Meyer KE, Peng, MW. 2005. Probing theoretically into Central and Eastern Europe: Transactions, resources, and institutions. *Journal of International Business Studies* **36**(6): 600–621.
- Nahapiet J, Ghoshal, S. 1998. Social capital, intellectual capital, and the organizational advantage. *Academy of Management Review* **23**(2): 242–266.
- Nelson T. 2003. The persistence of founder influence: Management, ownership, and performance effects at initial public offering. *Strategic Management Journal* **24**(8), 707-724.
- North DC. 1990. *Institutions, institutional change, and economic performance*. Cambridge: Harvard University Press.
- Ozgen E, Baron RA. 2007. Social sources of information in opportunity recognition: Effects of mentors, industry networks and professional forums. *Journal of Business Venturing* **22**, 174-192.
- Passy F. 2003. Social networks matter. But how? In *Social movements and networks: Relational approaches to collective action*, Diani MD, McAdam D (eds). New York: Oxford University Press; 21–48.
- Peng MW. 2002. Towards an institution-based view of business strategy. *Asia Pacific Journal of Management* **19**: 251-267.
- Peng MW. 2003. Institutional transitions and strategic choices. *Academy of Management Review* **28**(2): 275-296.
- Peng MW, Ahlstrom D, Carraher SM, Shi W. 2017. An institution-based view of global IPR history. *Journal of International Business Studies* **48**(7): 893-907.
- Peng MW, Luo Y. 2000. Managerial ties and firm performance in a transition economy: The nature of a micro-macro link. *Academy of Management Journal* **43**(3): 486-501.
- Peng MW, Sun SL, Pinkham B, Chen H. 2009. The institution-based view as a third leg for a strategy tripod. *Academy of Management perspectives* **23**(3): 63-81.
- Peng MW, Wang D, Jiang Y. 2008. An institution-based view of international business strategy: A focus on emerging economies. *Journal of International Business Studies* **39**(5), 920–936.

- Puffer SM, McCarthy DJ, Boisot M. 2010. Entrepreneurship in Russia and China: The impact of formal institutional voids. *Entrepreneurship Theory and Practice* **34**(3): 441–467.
- Quigley TJ, Hambrick DC. 2015. Has the “CEO effect” increased in recent decades? A new explanation for the great rise in America’s attention to corporate leaders. *Strategic Management Journal* **36**: 821-830.
- Rubenson, G. C., & Gupta, A. K. 1996. The initial succession: A contingency model of founder tenure. *Entrepreneurship: Theory & Practice*, 21(2): 21-35.
- Scott WR. 2014. *Institutions and organizations: Ideas, interests, and identities*. Thousand Oaks, CA: Sage.
- Sun P, Mellahi K, Wright M, Xu H. 2015. Political tie heterogeneity and the impact of adverse shocks on firm value. *Journal of Management Studies* **52**(8): 1036-1063.
- Wang T, Song M. 2016. Are Founder Directors Detrimental to New Ventures at Initial Public Offering? *Journal of Management* **42**(3): 644-670.
- Young MN, Peng MW, Ahlstrom D, Bruton GD, Jiang Y. 2008. Corporate governance in emerging economies: A review of the principal-principal perspective. *Journal of Management Studies* **45**: 196-220.
- Xin KR, Pearce JL. 1996. Guanxi: Connections as Substitutes for Formal Institutional Support. *Academy of Management Journal* **39**(6): 1641-1658.
- Zahra SA, & Filatotchev I. 2004. Governance of the entrepreneurial threshold firm: A knowledge-based perspective. *Journal of Management Studies* **41**(5): 883–895.
- Zahra SA, Hayton JC, Neubaum DO, Dibrell C, Craig J. 2008. Culture of family commitment and strategic flexibility: The moderating effect of stewardship. *Entrepreneurship: Theory and Practice* **32**(6): 1035–1054.
- Zahra SA, Hayton JC, Salvato C. 2004. Entrepreneurship in family vs. nonfamily firms: A resource-based analysis of the effect of organizational culture. *Entrepreneurship: Theory and Practice* **28**(4): 363– 381.
- Zhang Y, Zhang Z. 2006. Guanxi and organizational dynamics in China: A link between individual and organizational levels. *Journal of Business Ethics* **67**(4): 375-392.

Figure 1 Research Model

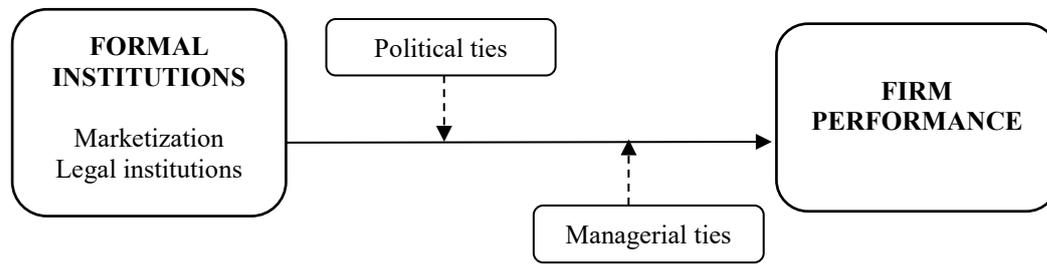


Table 1 Summary statistics

Variable	Mean	SD	Obs	1	2	3	4	5	6	7	8	9	10	11
1. ROA (%)	10.72502	8.649884	1894	1										
2. Political ties	0.2903	0.4540	2034	-0.0674***	1									
3. Managerial ties	6.6758	5.0425	2034	0.0365*	0.3255***	1								
4. Founder CEO	0.5914	0.4917	2034	0.0569**	0.1151***	0.2474***	1							
5. Founder age	53.8237	6.9909	2034	-0.0796***	0.1382***	0.1506***	-0.3168***	1						
6. Board independence	0.3780	0.1018	2034	0.0930***	-0.0057	0.0134	0.0349	-0.0687***	1					
7. Current ratio	5.5911	9.1096	2034	-0.0126	-0.0354*	-0.0144	0.0431**	-0.0171	-0.0099	1				
8. Firm size (log)	20.3998	0.8561	2034	-0.5367***	0.0497***	-0.0634***	-0.0203	0.0238	-0.0752***	0.0169	1			
9. Firm age	11.6500	4.3980	2034	-0.2500***	0.1263***	-0.0943***	-0.0697***	0.2001***	-0.0334	-0.0372*	0.2535***	1		
10. Marketization	7.3782	1.1523	2034	0.1328***	0.0035	0.0765***	0.1057***	0.0059	-0.0038	-0.0163	-0.1507***	-0.0207	1	
11. Legal institution	9.8867	4.2257	2034	-0.0972***	-0.0248	0.0896***	0.0961***	-0.0382*	0.0356	-0.0293***	0.2078***	0.1862***	0.4291	1

Note: *** Statistical significance at 1% level (p value < 0.01); ** Statistical significance at 5% level (p value < 0.05); * Statistical significance at 10% level (p value < 0.1). All pairwise correlations are calculated using the maximum number of observations available in the sample.

Table 2 Social ties, institutions and firm performance (OLS)

	1	2	3	4	5	6	7
<i>Founder:</i>							
Political ties	-1.0789*** (0.3665)	-1.0790*** (0.3661)	-1.0889*** (0.3679)	-12.0448*** (2.6359)	-4.8610*** (0.9052)	-1.0431*** (0.3635)	-1.0713*** (0.3699)
Managerial ties	0.0529 (0.0389)	0.0529 (0.0389)	0.0529 (0.0389)	0.0541 (0.0388)	0.0381 (0.0395)	-0.5159*** (0.1888)	0.0903 (0.0810)
Founder CEO	0.6597* (0.3806)	0.6596* (0.3808)	0.6607* (0.3806)	0.6612* (0.3784)	0.7085* (0.3792)	0.6950* (0.3809)	0.6470* (0.3818)
Founder age	-0.0145 (0.0243)	-0.0145 (0.0243)	-0.0150 (0.0244)	-0.0055 (0.0239)	0.0013 (0.0243)	-0.0145 (0.0243)	-0.0151 (0.0244)
<i>Firm-level factors:</i>							
Board independence	6.3322*** (1.7691)	6.3324*** (1.7696)	6.4204*** (1.7678)	6.8166*** (1.7097)	6.8655*** (1.7070)	6.0757*** (1.8174)	6.4502*** (1.7617)
Current ratio	-0.0474*** (0.0147)	-0.0474*** (0.0147)	-0.0475*** (0.0147)	-0.0505*** (0.0148)	-0.0476*** (0.0146)	-0.0483*** (0.0148)	-0.0474*** (0.0146)
Firm size (total assets)	-3.9683*** (0.2836)	-3.9683*** (0.2838)	-3.9654*** (0.2839)	-3.9524*** (0.2825)	-3.8827*** (0.2838)	-4.0310*** (0.2826)	-3.9690*** (0.2836)
Firm age	-0.1112** (0.0462)	-0.1112** (0.0462)	-0.1107** (0.0463)	-0.1017** (0.0461)	-0.1064** (0.0460)	-0.1189** (0.0466)	-0.1108** (0.0463)
<i>Institutions and interactions:</i>							
Government institutions		-0.0115 (0.5167)		-0.4194 (0.5079)		-0.5544 (0.5452)	
Legal institutions			0.1084 (0.1533)		0.0242 (0.1525)		0.1355 (0.1621)
Political ties* marketization				1.4658*** (0.3440)			
Political ties* legal					0.3698*** (0.0798)		
Managerial ties* marketization						0.0762*** (0.0261)	
Managerial ties* legal							-0.0038 (0.0069)
constant	97.6353*** (5.9834)	97.7281*** (7.5297)	97.2117*** (6.0504)	99.8038*** (7.4654)	96.1868*** (6.0665)	103.2477*** (7.7278)	97.0124*** (6.0815)
N	1894	1894	1894	1894	1894	1894	1894
R2	0.3850	0.3850	0.3852	0.3911	0.3914	0.3872	0.3852

Note: The dependent variable is ROA. Estimation is by OLS with robust standard errors (in parentheses). *** Statistical significance at 1% level (p value < 0.01); ** Statistical significance at 5% level (p value < 0.05); * Statistical significance at 10% level (p value < 0.1).

Table 3 Social ties, institutions and firm performance (Dependent variable: ROE)

	1	2	3	4	5	6	7
<i>Founder:</i>							
Political ties	-1.0718** (0.5335)	-1.0728** (0.5336)	-1.0797** (0.5356)	- 16.7069*** (3.8469)	-4.5498*** (1.2439)	-1.0198* (0.5262)	-0.9785* (0.5304)
Managerial ties	0.1709** (0.0729)	0.1708** (0.0728)	0.0967 (0.2208)	0.1707** (0.0728)	0.1561** (0.0735)	-1.0849*** (0.2738)	0.3581** (0.1473)
Founder CEO	1.1579** (0.5074)	1.1566** (0.5070)	1.1563** (0.5075)	1.1576** (0.5051)	1.2018** (0.5065)	1.2198** (0.5056)	1.0866** (0.5052)
Founder age	-0.0093 (0.0351)	-0.0096 (0.0351)	-0.0096 (0.0351)	0.0039 (0.0344)	0.0051 (0.0350)	-0.0103 (0.0347)	-0.0100 (0.0351)
<i>Firm-level factors:</i>							
Board independence	7.3675*** (2.1375)	7.3905*** (2.1409)	7.4422*** (2.1466)	8.0083*** (2.1195)	7.7966*** (2.1156)	6.8739*** (2.1611)	7.5759*** (2.1326)
Current ratio	-0.1959*** (0.0356)	-0.1958*** (0.0356)	-0.1960*** (0.0356)	-0.1999*** (0.0354)	-0.1958*** (0.0359)	-0.1974*** (0.0354)	-0.1956*** (0.0351)
Firm size (total assets)	-5.6695*** (0.3723)	-5.6688*** (0.3726)	-5.6699*** (0.3723)	-5.6323*** (0.3710)	-5.5839*** (0.3752)	-5.7894*** (0.3694)	-5.6907*** (0.3710)
Firm age	-0.1026* (0.0609)	-0.1025* (0.0609)	-0.1025* (0.0610)	-0.0900 (0.0611)	-0.0994 (0.0608)	-0.1180* (0.0607)	-0.1032* (0.0607)
<i>Institutions and interactions:</i>							
Marketization		-0.4786 (0.7317)		-1.0834 (0.7109)		-1.6877** (0.7884)	
Legal institutions			0.0967 (0.2208)		0.0069 (0.2222)		0.2339 (0.2365)
Political ties* marketization				2.0897*** (0.5000)			
Political ties* legal					0.3441*** (0.1126)		
Managerial ties* marketization						0.1685*** (0.0407)	
Managerial ties* legal							-0.0192* (0.0109)
constant	134.8304** * (7.8487)	138.6389** * (9.7203)	134.5320** * (7.8972)	141.5438** * (9.5878)	133.4891** * (7.9402)	150.6082** * (9.9567)	133.5527** * (7.9743)
N	2031	2031	2031	2031	2031	2031	2031
R2	0.3980	0.3982	0.3981	0.4044	0.4007	0.4036	0.3990

Note: The dependent variable is ROE. Estimation is by OLS with robust standard errors (in parentheses). *** Statistical significance at 1% level (p value < 0.01); ** Statistical significance at 5% level (p value < 0.05); * Statistical significance at 10% level (p value < 0.1).

Table 4 Social ties, institutions and firm performance (DID)

	1	2	3	4	5	6	7
<i>Founder:</i>							
Political ties	-1.2098*** (0.3570)	-1.2094*** (0.3566)	-1.2170*** (0.3582)	-9.9636*** (2.5426)	-3.9548*** (0.8934)	-1.1675*** (0.3522)	-1.1821*** (0.3586)
Managerial ties	0.0112 (0.0365)	0.0112 (0.0365)	0.0112 (0.0365)	0.0131 (0.0364)	0.0016 (0.0370)	-0.6766*** (0.1814)	0.0867 (0.0806)
Founder CEO	0.5532 (0.3643)	0.5541 (0.3647)	0.5539 (0.3644)	0.5557 (0.3632)	0.5896 (0.3646)	0.5959 (0.3640)	0.5263 (0.3657)
Founder age	-0.0283 (0.0235)	-0.0282 (0.0235)	-0.0287 (0.0236)	-0.0209 (0.0233)	-0.0166 (0.0237)	-0.0284 (0.0235)	-0.0288 (0.0235)
<i>Firm-level factors:</i>							
Board independence	5.6177*** (1.7496)	5.6159*** (1.7484)	5.6850*** (1.7475)	6.0333*** (1.6940)	6.0436*** (1.6987)	5.2964*** (1.8088)	5.7385*** (1.7313)
Current ratio	-0.0333** (0.0129)	-0.0333** (0.0129)	-0.0333*** (0.0129)	-0.0359*** (0.0130)	-0.0336*** (0.0128)	-0.0342*** (0.0130)	-0.0331*** (0.0128)
Firm size (total assets)	-2.6046*** (0.3224)	-2.6042*** (0.3227)	-2.6034*** (0.3227)	-2.6197*** (0.3206)	-2.5785*** (0.3218)	-2.6651*** (0.3201)	-2.6065*** (0.3225)
Firm age	-0.0414 (0.0454)	-0.0414 (0.0454)	-0.0411 (0.0454)	-0.0356 (0.0453)	-0.0401 (0.0451)	-0.0499 (0.0456)	-0.0410 (0.0454)
<i>Institutions and interactions:</i>							
Marketization		0.0602 (0.5160)		-0.2714 (0.5081)		-0.5948 (0.5424)	
Legal institutions			0.0804 (0.1511)		0.0206 (0.1502)		0.1349 (0.1600)
Political ties* marketization				1.1707*** (0.3330)			
Political ties* legal					0.2688*** (0.0782)		
Managerial ties* marketization						0.0920*** (0.0252)	
Managerial ties* legal							-0.0076 (0.0068)
Time	-10.3936*** (1.0010)	-10.3265*** (1.1595)	-10.8132*** (1.2784)	-10.3538*** (1.1516)	-10.9568*** (1.2771)	-10.2960*** (1.1528)	-10.8472*** (1.2786)
Treated	8.4983*** (0.8547)	8.4945*** (0.8554)	8.5047*** (0.8559)	8.4590*** (0.8444)	8.4219*** (0.8633)	8.5750*** (0.8552)	8.4916*** (0.8579)
Time*treated	-2.9862*** (0.9029)	-2.9799*** (0.9068)	-3.0008*** (0.9031)	-3.1041*** (0.8984)	-3.1046*** (0.9093)	-2.9963*** (0.9044)	-2.9584*** (0.9065)
constant	72.2681*** (6.5708)	71.7781*** (8.0672)	71.9725*** (6.6437)	74.0122*** (8.0045)	71.8812*** (6.6493)	78.1619*** (8.1502)	71.4930*** (6.6695)
N	1894	1894	1894	1894	1894	1894	1894
R2	0.4366	0.4366	0.4367	0.4405	0.4399	0.4399	0.4370

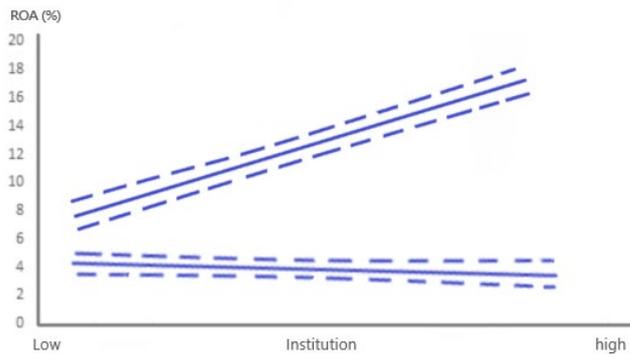
Note: The dependent variable is ROA. Estimation is by Difference-in-Difference (DID) with robust standard errors (in parentheses). *** Statistical significance at 1% level (p value < 0.01); ** Statistical significance at 5% level (p value < 0.05); * Statistical significance at 10% level (p value < 0.1).

Table 5 Social ties, institutions and firm performance (FEGLS)

	1	2	3	4	5	6	7
<i>Founder:</i>							
Political ties	-1.0789*** (0.3856)	-1.0790*** (0.3856)	-1.0889*** (0.3858)	-12.0448*** (2.5539)	-4.8610*** (0.9414)	-1.0431*** (0.3851)	-1.0713*** (0.3877)
Managerial ties	0.0529 (0.0342)	0.0529 (0.0342)	0.0529 (0.0342)	0.0541 (0.0340)	0.0381 (0.0342)	-0.5159** (0.2189)	0.0903 (0.0890)
Founder CEO	0.6597* (0.3583)	0.6596* (0.3584)	0.6607* (0.3583)	0.6612* (0.3566)	0.7085** (0.3566)	0.6950* (0.3580)	0.6470* (0.3595)
Founder age	-0.0145 (0.0267)	-0.0145 (0.0267)	-0.0150 (0.0267)	-0.0055 (0.0266)	0.0013 (0.0268)	-0.0145 (0.0266)	-0.0151 (0.0267)
<i>Firm-level factors:</i>							
Board independence	6.3322*** (1.5774)	6.3324*** (1.5774)	6.4204*** (1.5821)	6.8166*** (1.5736)	6.8655*** (1.5774)	6.0757*** (1.5775)	6.4502*** (1.5833)
Current ratio	-0.0474*** (0.0173)	-0.0474*** (0.0173)	-0.0475*** (0.0173)	-0.0505*** (0.0172)	-0.0476*** (0.0172)	-0.0483*** (0.0172)	-0.0474*** (0.0173)
Firm size (total assets)	-0.1112*** (0.0429)	-0.1112*** (0.0429)	-0.1107*** (0.0429)	-0.1017** (0.0427)	-0.1064** (0.0427)	-0.1189*** (0.0429)	-0.1108*** (0.0429)
Firm age	-0.1112*** (0.0429)	-0.1112*** (0.0429)	-0.1107*** (0.0429)	-0.1017** (0.0427)	-0.1064** (0.0427)	-0.1189*** (0.0429)	-0.1108*** (0.0429)
<i>Institutions and interactions:</i>							
Marketization		-0.0115 (0.4927)		-0.4194 (0.4992)		-0.5544 (0.5334)	
Legal institutions			0.1084 (0.1530)		0.0242 (0.1534)		0.1355 (0.1642)
Political ties* marketization				1.4658*** (0.3375)			
Political ties* legal					0.3698*** (0.0843)		
Managerial ties* marketization						0.0762*** (0.0290)	
Managerial ties* legal							-0.0038 (0.0083)
constant	97.6353*** (5.1603)	97.7281*** (6.5144)	97.2117*** (5.1942)	99.8038*** (6.4998)	96.1868*** (5.1733)	103.2477*** (6.8327)	97.0124*** (5.2124)
N	1894	1894	1894	1894	1894	1894	1894

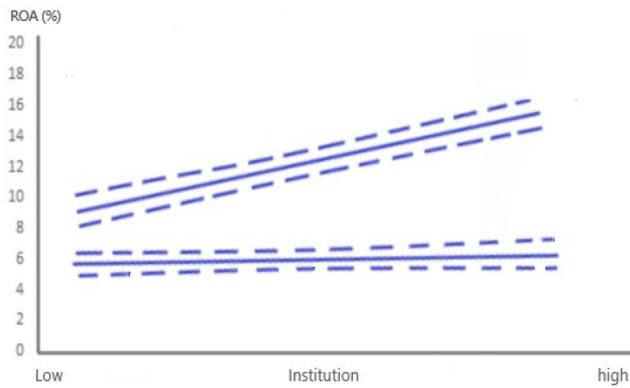
Note: The dependent variable is ROA. Estimation is by Fixed Effects Generalised Least Squares (FEGLS). *** Statistical significance at 1% level (p value < 0.01); ** Statistical significance at 5% level (p value < 0.05); * Statistical significance at 10% level (p value < 0.1).

Figure 1: Marketization and political ties



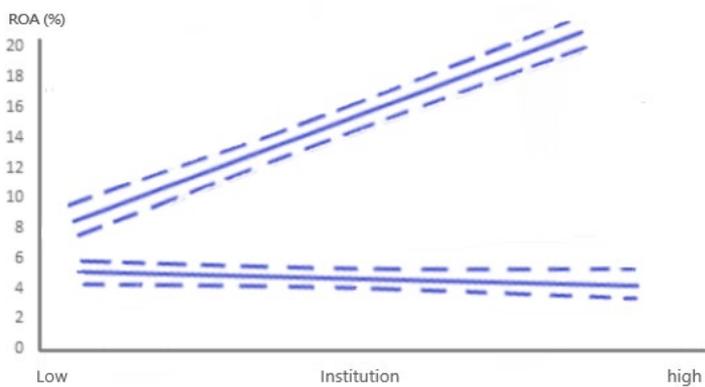
Note: The line above shows the founder with political ties; then blue line on the bottom shows the founder without political ties.

Figure 2: Legal and Political ties



Note: The line above shows the founder with political ties; then blue line on the bottom shows the founder without political ties.

Figure 3: Marketization and Managerial ties



Note: The line above shows the founder with managerial ties; then blue line on the bottom shows the founder without managerial ties.