

Angel investor's selection criteria: a comparative institutional perspective

Article

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Angel Investor's Selection Criteria: A Comparative Institutional Perspective

--Manuscript Draft--

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Abstract:	<p>Despite the important role of angel investors as critical financial providers for new ventures, little is known regarding how institutions make their investment decisions. While angels make decisions based on selection criteria during the first stage, they are also embedded within and affected by different institutional settings and as a result weight these criteria differently than other investors. We compare angel investors' selection criteria in China and Denmark using the comparative institutional perspective. We use a policy capturing approach and hierarchy linear modeling, revealing that since Chinese angels are embedded within relationship-based institutional settings they tend to rely more on strong ties such as family and friends in management team, as well as weighting risks less compared to Danish angels operating within more rule-based institutional contexts.</p>

**ANGEL INVESTOR'S SELECTION CRITERIA:
A COMPARATIVE INSTITUTIONAL PERSPECTIVE**

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4 The difficulty of obtaining adequate external capital has been recognized as a major constraint
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7 on the formation and growth of new business ventures (Cassar, 2004). Angel investors, as
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10 private investors who give risk capital to the ventures in the early stages, provide critical
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13 financial as well as managerial support (Landström, 1995; Maxwell, Jeffrey, & Lévesque,
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15
16 2011). For example, 5% of the population in the United States is business angels, collectively
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19 investing \$108 billion USD per year or 3.5 times the amount invested in start-ups by venture
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22 capital funds (Bygrave & Reynolds, 2004). While scholars have begun to recognize that
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24
25 different institutional contexts could influence venture capitalists' (VCs) decision criteria
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27
28 (Bruton, Ahlstrom, & Puky, 2009; Zacharakis, McMullen, & Shepherd, 2007), we have little
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30
31 idea how institutions play a role in affecting angel investors' decisions to invest directly in
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36 small unquoted companies.

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39 While formal venture capitalists could rely on sophisticated due diligence and term sheet
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42 tools to build a solid investment portfolio (Cumming, Schmidt, & Walz, 2010), angel investors
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45 are more likely to depend on less formal procedures and personal relationships to select their
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48 projects and allocate investments (Duxbury, Haines, & Riding, 1996; Sudek, 2006). This
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51 makes angels more embedded in the local institution than venture capitalists, some of whom
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54 are pursuing global deals (Gu & Lu, 2010). Institutional contexts might therefore exert a higher
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56
57 impact on angel investor' decisions than them on venture capitalists' decision. This study
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1 therefore aims to understand how angel investors' decision-making differs in different
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4 institutional settings.
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6
7 Economic history shows that institutions generate either productive or unproductive
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9
10 entrepreneurial activities (Baumol, 1996; North, 1990). Economic transactions are also
11
12
13 affected by noneconomic factors such as social structure and network ties (Granovetter, 1985).
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15
16 Defined as "the rule of the game in a society" (North, 1990: 3), institutions serve as constraints
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19 that regulate economic activities, as well as instruct information distribution and the incentive
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22 structure (Bruton & Ahlstrom, 2003; Zacharakis et al., 2007). In this study we differentiate
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26 between two dominant institutional arrangements, rule-based and relationship-based
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29 institution, that profoundly affect exchanges, transactions, and entrepreneurial activities -
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31
32 including angel investments (Peng, 2003). Referring to Zacharakis et al. (2007)'s finding that
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34
35 VCs operating in rule-based institution weight more market factors than VCs operating in
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37
38 relationship-based institution, we developed our hypotheses and found that these institutional
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41 distinctions in different countries enable angel investors to have different attitudes toward new
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43
44 ventures' characteristics. We focus on three key selection criteria: the source of the business
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46
47 plan, risk, uncertainty, and relationship with the start-up team members. These correspond to
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49
50 the three underlining decision factors: discovery of opportunities, evaluation, and monitoring.
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53 A theoretical framework for the angel investment decision model under different institutional
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56 settings is provided in Figure 1. Guided by the comparative institutional perspective, we
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1 carefully compare the institutional arrangements in China and Denmark in order to find their
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4 distinctions and influences on angel investors' decisions.
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6
7 [Figure 1]
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10 We focus on angel investors' decisions at the selection stage. As the first stage in the
11
12 investment decision process the selection stage has the highest rejection rate among all
13
14 financing rounds that over 90% of the business proposals are rejected (Feeny, Haines, & Riding,
15
16 1999; Riding, Madill, & Haines, 2007). Angel investors from different institutions share
17
18 similar criteria in their selections, while differing in the way they weight these criteria because
19
20 the presence or absence of certain institutional arrangements may increase or reduce
21
22 perceptions of risk, transaction costs, and opportunistic behaviors (Peng, Sun, Pinkham, &
23
24 Chen, 2009).
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36 This study can make three significant theoretical contributions. First, to our best
37
38 knowledge it is the first attempt to explore institutional differences in business angel decision
39
40 criteria. Although previous studies conducted in varied countries have showed that angel
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42 investors in different countries have different behaviors, how the institutional system affects
43
44 these difference has never been examined. A greater understanding of the rules of the game
45
46 from a comparative institutional perspective will aid entrepreneurship researchers as well as
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48 would-be entrepreneurs, potential investors, and government policy makers attempting to
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1 Second, we provide entrepreneurs with insights into angel investors' selection policies.
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4 Although there are a large number of potential investors and large amount of money, the ability
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6
7 of start-up ventures to attract funding has been extremely limited (Ring, Duxbury, & Haines,
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9
10 1997). Understanding the investment decision process might help identify the critical reason
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12
13 that causes an opportunity to be rejected and increase the investment success rate.
14
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16 Third, as many developing economies have undertaken fundamental transitions toward
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18
19 market-based economies since the 1980s, improved knowledge regarding individual behaviors
20
21
22 and decision-making in these transition countries has become more important both for theory
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24
25 and practice. While the often-studied actors in transition economies are organizations (Peng,
26
27
28 2003), individual actors affected by the fundamental institutional changes are less well-studied.
29
30
31 While relationship-based institution transmits to rule-based institution, our model could further
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33
34 help entrepreneurs understand the dynamics and evolution of angel investors' selection criteria.
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40 **A COMPARATIVE INSTITUTIONAL PERSPECTIVE**

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44 **Entrepreneur and Angel Investor under Rule-Based and Relationship-Based Institutions**

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48 Institutional theory suggests that entrepreneurs and investors will adapt to opportunity
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51 discoveries, evaluation and exploitation activities, incentive structures, and enforcement
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54 mechanisms within their institutional environments (Baker, Gedajlovic, & Lubatkin, 2005;
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56
57 Bruton & Ahlstrom, 2003; Bruton, Ahlstrom, & Puky, 2009; Bruton, Filatotchev, Chahine, &
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1 Wright, 2010; North, 1990; Peng et al., 2009). The co-existence of two important institutional
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4 context types is widely recognized: rule-based and relationship-based institutions. Both have
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6
7 been found to have strong influences on venture capitalist's decision-making policies and
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9
10 procedures (Bruton et al., 2009; Peng, 2003; Zacharakis et al., 2007). Rule-based institutions,
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12
13 which exist in most developed economies, usually refer to a well-codified legal infrastructure,
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15
16 commercial law, corporate law, and contract law with sophisticated property right and investor
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18
19 protections that dominate the impersonal exchange regime. Relationship-based institutions,
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21
22
23 which exist in most developing economies, refers to a weak legal system with limited property
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25
26 right and investor protections that govern both relationship-based and personalized
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28
29 transactions (North, 1990). While most developing economies are struggling to make their
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31
32 transition from relationship-based to rule-based institutions (Bruton et al., 2009; Peng & Zhou,
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34
35 2005; Peng, 2003), the founding institution still constrains this transition and
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37
38 relationship-based institutions still largely dominate (Shinkle & Kriauciunas, 2012).
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42 Based on Scott (1995)'s classification, we map both entrepreneurs' and investors'
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44
45 responses in three dimensions: regulative, normative, and cognitive pillars, as shown in Table 1.
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47
48 In rule-based institutions the well-codified legal system and enforcing mechanisms reduce the
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50
51 transaction cost and uncertainty involved in building a cooperative, long-term, trusting
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54 exchange relationship, even with strangers. The well-specified investment contracts available
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57 in these institutions could protect investors' equity and interest, reduce the domain and severity
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1 of risk an investment is exposed to, and thereby encourage cooperation and trust between
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4 entrepreneurs and angel investors (Poppo & Zenger, 2002). Investors could apply weak ties in
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6
7 order to *explore* more heterogeneous information and investment opportunities (Peng & Zhou,
8
9
10 2005; Ma, Huang, & Shenkar, 2011).

11
12
13 [Table 1]
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16 In contrast, in a weak legal system both entrepreneurs and angel investors face high
17
18 transaction costs and uncertainty when developing a cooperative, long-term, trusting exchange
19
20 relationship. They reduce these costs by cultivating intense and multiple ties or networks in
21
22
23 order to create collective identities, avoid exchange hazards, and protect investment interests
24
25
26 (Peng, 2001; Poppo & Zenger, 2002; Webb, Tihanyi, Ireland, & Sirmon, 2009). In this
27
28
29 relationship-based institutional context entrepreneurs and investors usually rely on established
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31
32 strong ties in order to *exploit* opportunities (Peng & Zhou, 2005; Ma et al., 2011).
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36 37 38 **Angel Investor's Selection Criteria** 39

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42 As the most important source of financial capital to entrepreneurial firms, angel investments
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44
45 have been increasingly studied since Wetzel's (1981, 1983) theoretical identification of its
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47
48 importance. The decision-making process is regarded as a key part of the angel investment
49
50
51 procedure where investors judge the criteria of the new venture and make decisions (Feeney et
52
53
54 al., 1999).
55

56
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58 Research suggests that the informal investment decision process can be divided into two
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1 stages (Maxwell et al., 2011): 1) the selection stage where potential investors decide whether or
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3
4 not they are interested and will continue to consider the proposal, and 2) the post-selection
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6
7 stage where a more thorough assessment and potential negotiation will be conducted along
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9
10 with the final decision on whether or not to invest. We focus on the first stage where the
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12
13 investment criteria of the business proposal are evaluated and the rejection rate is the highest
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17 (Riding et al., 1997).

18
19
20 Investment criteria have been studied frequently in the prior literature and a wide variety
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22
23 of possible factors have been listed that angel investors consider when making investment
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25
26 decisions (Bachher & Guild, 1996; Feeney et al., 1999; Haar, Starr, & MacMillan, 1988;
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28
29 Haines, Madill, & Riding, 2003; Landström, 1998; Sudek, 2006; Van Osnabrugge, 2000).

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31
32 Researchers investigating funding criteria note the importance of financial numbers and other
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35 easily verifiable factors such as sales, evidence of marketplace acceptance and size, as well as
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38 patent protection (e.g., Mason & Stark, 2004). In addition to these rather objective factors,
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41 more subjective factors are also found including personality characteristics, work ethic,
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44 business understanding, and realistic notion of the venture's valuation (Feeney et al., 1999;
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46
47 Haines et al., 2003). However, previous research on criteria identification, evaluation, and
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49
50 aggregation are often conducted separately in different countries, including the US (Bygrave &
51
52
53 Reynolds, 2004), Canada (Duxbury et al., 1996), the United Kingdom (Short & Riding, 1989),
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56 Sweden (Landström, 1995), Australia (Hindle & Wenban, 1999), Asia (Tashiro, 1999; Hindle
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1 & Lee, 2002), and so on. There are fewer attempts to understand how angel investors
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3
4 differently emphasize these criteria in different countries where varied institutional contexts
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6
7 may have an impact.
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10 11 **Comparison of China and Denmark** 12

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16 In this study we compare Chinese and Danish angel investors' decision-making policies in
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19 order to identify the institutional influence while China and Denmark present as
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21
22 relationship-based and rule-based institutions *respectively* for these reasons. 1) Both countries
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24
25 have adapted civil law systems; however, the law system China adapted is influenced by the
26
27
28 Soviet schema where the legislature retains the power to interpret statutes and the constitution
29
30
31 remains ambiguous regarding judicial review of legislation. Law enforcement is very weak
32
33
34 while corruption is notoriously rampant in practice (ranked number 76 in the corruption
35
36
37 perception index, see Table 2a). China's investor protection systems, corporate governance,
38
39
40 and accounting standards are significantly less developed than those of most countries
41
42
43 according to the World Bank Governance Index (La Porta, Lopes-de-Silanes, Shleifer, &
44
45
46 Vishny, 1997, 1998; Allen, Qian, & Qian, 2005). Chinese society clearly demonstrates the
47
48
49 attributes of relationship-based institutions (Zhou & Poppo, 2010). In contrast, Denmark has a
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51
52 long tradition of government openness, civic activism, and social trust with strong
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57 transparency and accountability mechanisms, ranking number 2 in the corruption perception
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1 index. In Denmark intellectual property rights are well-protected and contracts are
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3
4 well-enforced, showing the attributes of a rule-based institution. 2) The freedom of market
5
6
7 competition and government's enforcement of such a system vary significantly between China
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9
10 and Denmark. The heritage foundation's Economic Freedom Index describes the degree of
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12
13 private economic freedom mixed with a degree of government market regulation. While China
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15
16 is ranked number 138 in the 2012 Index, Denmark is ranked number 11 (see Table 2a). 3) The
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18
19 ease of starting up a business and investing in it is also different in China and Denmark.
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22 According to the World Bank Doing Business Report 2011 (see Table 2b), Denmark maintains
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24
25 its creditable 6th position on overall "Ease of Doing Business," the highest-ranking country in
26
27
28 the Europe. Meanwhile, China was ranked 79 out of 183 economies. Concerning investor
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30
31 protections Denmark was ranked 28 and China was ranked 98. These prominent differences
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33
34 between China and Denmark will accordingly provide us a good opportunity to differentiate
35
36
37 between the effects of relationship- and rule-based institutions.
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40

41
42 [Table 2a and 2b]
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48 **HYPOTHESES DEVELOPMENT**

49 Under the institution comparative perspective we emphasize three criteria in investment
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51
52 opportunity discovery, evaluation, involvement, and monitoring.
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56 **Discovering the Investment Opportunity**

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1 Prior research found that familiarity with the business field, personal knowledge of the
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3 entrepreneur, and a high regard for the third party who brought the investment proposal to the
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5 investors for review were highly related to the investment decision (Harrison, Dibben, &
6
7 Mason, 1997). Usually third-party references can safeguard the exchange by reducing
8
9 transaction costs and avoiding moral hazards (Williamson, 1979). A reference with a high
10
11 reputation can give the investor confidence in the proposal's quality and entrepreneurial
12
13 personality (Bian, 1997). In rule-based institutions individuals are embedded within an
14
15 environment with a well-established legal system, higher social trust, and reliable government
16
17 and market machinery; these are the root of trust in information from unfamiliar parties. Angel
18
19 investors in this institutional context can therefore discover potential investment projects via
20
21 weak tie referent parties. Untrustworthy behavior could be punished by social sanctions,
22
23 helping induce cooperation (Hagen & Choe, 1998). Although weak ties lack the effective
24
25 content of infrequent interaction, they have advantages in carrying novel information and
26
27 facilitating investment opportunities by providing nonredundant information embedded within
28
29 separated network (Granovetter, 1973; Ma et al., 2011).
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48 However, in a relationship-based institution most important exchanges are made through
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50 existing strong ties built via frequent interactions and reciprocal favors (Granovetter, 1973;
51
52 Peng & Zhou, 2005; Ma et al., 2011). These strong ties always control critical information that
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58 is not shared with others who do not have these ties or trust (Bian, 1997). The frequent
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1 interactions and reciprocal favors combined with risk-taking and successful fulfillment of
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3
4 previous exchanges strengthen the motivation of individuals to rely on close relationships and
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6
7 invest acquired resources into the next exchange with a known partner (Peng & Zhou, 2005). In
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9
10 a relationship-based institution such as China angel investors accordingly count on the
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12
13 reliability and dependability of previous interactions with the referent party in order to screen
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16 proposals over the credibility of strangers. Since angel investors tend to make a less thorough
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18
19 evaluation of potential investments but quicker investment decisions than venture capitalists
20
21
22 (Mason & Harrison, 1996), if a strong tie such as a close friend brings the opportunity a
23
24
25 Chinese angel investor weight it more heavily than a Danish investor.
26
27

28 *H1: Chinese angel investors more strongly emphasize an opportunity brought by a friend*
29 *compared to a cold call in selecting investment opportunities than Danish investors do.*
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34 **Evaluating the Investment Opportunity**

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37 Unlike venture capitalists who have a portfolio of investments to balance successful and failed
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39
40 investments (Cumming, 2006), angel investors tend more to carefully evaluate the rates of
41
42
43 return and will have a systematically superior investment performance than VCs (Mason &
44
45
46 Harrison, 2002; Riding, 2008). At the macro level China's dynamic economy with its low
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48
49 starting point and high speed could provide more business opportunities than Denmark's more
50
51
52 developed economy with slow development (see the comparison in Table 2a). In addition,
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56 China's low income level and standard of living could drive Chinese investors who seek large
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59 returns more strongly than Danish investors. Based on our comparative institutional
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1 perspective, we also argue that the transactions costs in a relationship-based institutional
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4 setting are higher than those in rule-based institutions. For example, China lacks the high level
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6
7 of legal enforceability that facilitates the application of contracts safeguarding market
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9
10 exchanges characterized by non-trivial hazards. Accordingly, Chinese investors rely on
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12
13 “relational reliability” (e.g., the trust in strong ties) to protect transactions associated with
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15
16 specialized assets and behavioral uncertainty (Zhou & Poppo, 2010). In contrast, Danish
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18
19 investors could emphasize returns less strongly against the low level of transaction costs in a
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21
22 rule-based context.
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25
26 At the micro level we must note the “sunk costs” of strong ties in relationship-based
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28
29 institutions (Northcraft & Wolf, 1984). Strong ties take time and effort to build, and have high
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31
32 costs that cannot be recovered (Peng & Zhou, 2005). The scale and scope of strong ties are
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34
35 often constrained with limited size. When either entrepreneurs or investors want to expand the
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37
38 scale or scope of a transaction the cost of strong ties will be multiplied in an extended network
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40
41 (Peng, 2003). However, based on the weak ties connecting opportunities Danish investors may
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44 be less concerned with sunk transaction costs. Considering the costs incurred prior to the
45
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47 particular investment opportunity we suggest:
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51 *H2a: Chinese angel investors more strongly emphasize returns in selecting investment*
52 *opportunities than Danish angel investors do.*
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56 For angel investors risk could better be defined in terms of the amount potentially lost than
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58
59 in terms of variance in the outcome distribution because most do not allocate investments into a
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1 managed portfolio the way venture capitalists do (March & Shapira, 1987). The rapid political,
2
3 economic, and social changes occurring in a harsh transition economy such as China could
4
5 increase start-ups' discontinuation rates at the high level of 10.28% in 2007 and 5.3% in 2011,
6
7 compared with a stable economy such as Denmark at 1.55% in 2007 and 2.3% in 2011 (Global
8
9 Entrepreneurship Monitor (GEM), 2007, 2011). At the macro level, by operating within a
10
11 highly dynamic and hostile environment with weak investor protections Chinese angel
12
13 investors could expect to lose significantly more in some projects, and accordingly bear greater
14
15 risks than Danish investors operating within a mature economy with strong minority investor
16
17 right protections.
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28
29 At the micro level, in a relationship-based institution both entrepreneurs and investors in
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31 China could frequently protect trust among strong ties by building relational reliability in order
32
33 to reduce the liability under a weak legal environment (Zhou & Poppo, 2010). They could
34
35 respond to business failures by bestowing even greater trust or investments, namely called
36
37 "throwing good money after bad" (Guler, 2007). A lengthy and inefficient bankruptcy
38
39 environment could multiply this ironic effect of trust (Lee, Peng, & Barney, 2007). In contrast,
40
41 a Danish investor who relies more on weak ties in opportunity evaluation is less likely to fall
42
43 into such potentially self-defeating trap and is more to explore alternative options (Shapiro,
44
45 1987).
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58 However, strong ties also carry the advantage of the "cushion" effect. In-group members
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1 such as family always step in to help out group members who confront a large and possibly
2
3 catastrophic loss after choosing a risky option in a relationship-based context such as China
4
5
6
7 (Weber & Hsee, 1998). A Chinese investor could therefore tolerate a greater investment loss
8
9
10 than a Danish investor because the Chinese investor has built-in backup. Thus, we have:

11
12 *H2b: Chinese angel investors less emphasis on risk in selecting investment opportunities*
13 *than Danish angel investors do.*
14
15

16 17 18 **Involvement and Monitoring** 19

20
21 In addition to their financial role in new venture development, angel investors also play a
22
23 substantial role in the strategy-making and daily operations of these ventures (Wiltbank, Read,
24
25 Dew, & Sarasvathy, 2009). An angel investor could gain *ex post* control and exert power over
26
27 the investment in a high-risk small-firm environment via active involvement after investment
28
29
30
31 (Van Osnabrugge, 2000). Under the comparative institutional perspective, in a
32
33
34 relationship-based institution where intellectual property rights are less protected and there is a
35
36
37 friend or family member on the start-up team angel investors can more easily become accepted
38
39
40 by the team and become involved in the business with entrepreneurs' cooperation. However, in
41
42
43 rule-based institutions even without these bridging ties an entrepreneur team can build trust
44
45
46 relationships with an angel investor because people in latter institution believe that most people
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48
49 can be trust (Ma et al., 2011).
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56 Monitoring ventures following investment is another consideration for angel investors. In
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58
59 a relationship-based institution the monitoring roles of the board of directors and minority
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1 shareholders are weak. Angel investors have tremendous difficulties protecting their interests
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3
4 through formal channels such as board or shareholder meetings; instead they rely on strong ties
5
6
7 with the funded firm, government, or judicial system to further aid in the monitoring process
8
9
10 and legal issues (Howson & Clarke, 2011). It is not uncommon that a Chinese investor cannot
11
12
13 access the funded firm's accounting report (Ahlstrom, Bruton, & Yeh, 2007). A strong
14
15
16 connection such as a family member or friend on the entrepreneurial team can therefore serve
17
18
19 as a springboard for monitoring assistance since the family or friend would pay the penalty of
20
21
22 losing trust (or "face") if he or she violated the investor's rights or did not disclosure critical
23
24
25 insider information to the investor (Peng & Zhou, 2005). In contrast, in a rule-based institution
26
27
28 the entrepreneurial team maintains their fiduciary duties to investors even without personal
29
30
31 connections. The strong protection of minority investor rights and corporate governance also
32
33
34 allows angel investor to formulate an optimal contract with contingency incentive plans in
35
36
37 order to overcome any moral hazard or adverse selection issues (Van Osnabrugge, 2000). A
38
39
40 Danish investor can therefore trust stranger when investing. We suggest that:
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42

43
44 *H3a: Chinese angel investors more strongly emphasize the venture's entrepreneurial team*
45 *when it includes a friend as a member than Danish angel investors do.*
46
47

48
49 *H3b: Chinese angel investors more strongly emphasize the venture's entrepreneurial team*
50 *when it includes a family member than Danish angel investors do.*
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METHODS

Angel investment decisions have been studied using different methodologies including questionnaires, verbal protocols, interviews, etc. (Duxbury et al., 1996; Maxwell et al., 2011; Prowse, 1998). We used the policy capturing approach from the social judgment theory (Slovic & Lichtenstein, 1971) in order to uncover how these assessment factors or criteria are used in human decision-making (e.g., Hitt, Ahlstrom, Dacin, Levitas, & Svobodina, 2004; Hitt, Dacin, Levitas, Arregle, & Borza, 2000; Lovallo, Clarke, & Camerer, 2012; Zacharakis et al., 2007). Differing from surveys and interviews in prior studies, this method avoids relying on investors' often biased retrospections and instead allows researchers to observe directly entrepreneurial decisions (Davidson, 2007; Lovallo et al., 2012). We adapted this method for angel investment decision; it has not been used in this domain so far as we know.

Sample

MBA students from two large universities in China (N= 60) and Denmark (N = 53) who finished courses related to either entrepreneurship or venture financing took part in this programs. As stated in their career statements and curriculum vista available in MBA resume booklets they had prepared and evaluated business plans, and some were in the process of conceiving entrepreneurships or investing in private companies. The two groups are not significantly different in demographics such as gender ($\gamma = -.057$, $p = .682$) and age ($\gamma = -.209$,

1 p = .130). The respondents read the instructions asking them to play the role of angel investors
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4 and examine a summary prepared by the assistant. Each respondent examined eight investment
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7 scenarios and indicated their interest in looking further into the projects. Respondents varied in
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10 their investment scenarios as described above.

14 **Variables**

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19 Following Hitt et al. (2000, 2004), we collected the criteria for angel investments from the
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22 literature (as discussed above), itemized them, and scanned the final list with local angel
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25 investors. The detailed description can be found in Table 3. The eight investment criteria in
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27
28 each scenario act as independent variables and control variables at level-1 (the scenario level).
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31 They cover a broad range of new venture characteristics including source of the business plan,
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34 investment return, risk of failure, relationship with members of the start-up team, compatibility
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37 with investors' expertise and interests, start-up team capabilities, opportunity to become
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40 involved in the new venture, and exit plan (Feeney et al., 1999; Landström, 1995; Mason &
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43 Stark, 2004; Maxwell et al., 2011). We provided a brief description of each criterion in the front
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46 page of the questionnaire in order to help respondents' understanding.
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51 We then constructed investment project scenarios by randomly assigning (using a random
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54 number generator) the levels of the investment criteria in each case in order to avoid
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57 multicollinearity. We examined the correlations of the independent variables in order to ensure
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1 the randomization. We also ensured that the variance of each variable was balanced in the
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4 construction of the scenarios so that each variable had a relatively equal probability of having
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7 an effect on the dependent variable.
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10 **Dependent variable.** The selection tendency to invest is the dependent variable of the
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12 study. It was measured by the average of two items, “Is this company attractive for you to
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14 invest?” with a five-Likert scale from 1= very unattractive to 5= very attractive, and “What is
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16 the probability that you would invest in this start-up business?” with a five-Likert scale from
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18 1= low probability to 5= high probability. Individuals’ answers to these two questions were
19
20 highly correlated ($\gamma = .868, p < .000$). The two groups, Chinese and Danes, were not
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22 significantly different in selection tendency (t -value = .983, $p = .326$).
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32 **Independent variables.** For the source of business plan, we use the dummy for 1 (friend)
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34 and 0 (cold call) as our independent variables. Using dummies for comparing different
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36 categories is often adapted in research using policy capturing method (Boatsman & Robertson,
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38 1974; York, 1989). For the investment return, we use three scale from 1(low return) to 3 (high
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40 return). For risk of failure, we use three scale from 1 (possibly huge loss) to 3 (possibly little
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42 loss). For relationship with members of the start-up team, we use two dummies: friend (1) and
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44 stranger (0), and family (1) and stranger (0).
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55 [Table 3]
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58 **Control Variable.** At level-1, all the other scenario characteristics act as the control
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1 variables (as show in Table 3). At level-2 (the individual level) we controlled the basic
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4 demographic variables including age, gender, and income (Maula, Autio, & Arenius, 2005;
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7 Szerb, Rappai, Makra, & Terjesen, 2007). We also controlled the individual experiences
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9
10 relating to informal investment: previous informal investment was measured using the question
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13 “Whether you have being an angel investor before?”; previous finance investment was
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16 measured using the question “Do you have experience in financial investment, such as stocks,
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19 real estates, foreign exchange, bonds?”; entrepreneurial experience was measured using the
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23 question “Do you have startup experience?” (Maula et al., 2005; Wiltbank et al., 2009).
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27 **RESULTS**

28 **China and Denmark Comparison**

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32 We used a multilevel model in our study where investment criteria and investors’ decisions
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35 were at level-1 and individual characteristics were at level-2. Since each individual reviewed
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38 eight scenarios, there are 480 observations for Chinese sample and 424 observations for Danish
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41 sample. For the scenarios embedded in each respondent we used Hierarchical Linear Modeling
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44 (HLM) to analyze the data (Bryk & Raudenbush, 1992; Hitt et al., 2000, 2004), control
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47 within-respondent variance (i.e., eight cases per respondent), and assesses between-respondent
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50 variance (i.e., between respondents within each country) and group effects with coefficients
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54 that can be interpreted similar to an ordinary least squares (OLS) regression analysis (Bryk &
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1 Raudenbush, 1992). All explanatory variables were centered on their grand mean when entered
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4 into the model. The descriptive statistics and correlations for the level-1 and level-2 variables
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6
7 are shown in Table 4.
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10 [Table 4]
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13 We first developed separate models for the Chinese and Danish samples using hierarchical
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15 linear modeling (HLM). From the separate results for China and Denmark, we can see that all
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17 eight criteria in level-1 have very significant effects on investment propensity for Chinese
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19 investors. For Danish investors, the relationship with the entrepreneurial team does not
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21 significantly influence the selection tendency toward investment. This may reveal that Danish
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23 investors are less influenced by a relationship-based institutional context as Chinese investors.
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32 We build Models 3 to 5 in Table 5 to analyze the data including both the China and
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34 Denmark sample, adding the country dummy. In Model 3 we set the criteria at level-1 and find
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36 substantial between-individual differences that have significant coefficients for all eight
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38 scenarios. In Model 2 we add the level-2 control variables, and in Model 3 we add the country
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40 moderation and perceived financial institution into the model. Hypothesis 1 indicates that
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42 Chinese investors favor a business plan received from a friend compared to cold call more than
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44 Danish investors. However, results fail to find significant difference for Chinese and Danish
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46 investors ($\gamma = .175$, $p = .119$), although the coefficient is positive. For the return criterion, the
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48 results does not fully support H2a that Chinese investors more heavily emphasize this criterion
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1 than Danish investors ($\gamma = .024, p = 0.755$), however, the coefficient is positive. For hypothesis
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4 2b, results in Model 6 suggest that Chinese investors less emphasis on risk in selecting
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7 investment opportunities than Danish angel do ($\gamma = -.234, p < .05$). H2b therefore receives
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10 support. Finally, for the relationship between the entrepreneurial team and investors (H3ab),
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13 Chinese investors more heavily emphasize family ($\gamma = .233, p < 0.1$) and friends ($\gamma = .368, p <$
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16 0.05) over strangers than Danish investors. Both H3a and H3b accordingly receive supports.
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20 Following Hitt et al.(2000, 2004), we also have a robustness check through comparing the
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23 weight each criterion received from Chinese and Danish investors respectively. We test
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26 hypotheses through separating models for China (Model 4) and Denmark (Model 5). The
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29 coefficients obtained in these separate samples are compared using a z -test, the technique
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32 summarized by Cohen and Chohen (1983: 111) and commonly applied in criterion
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35 comparisons (Hitt et al. 2000, 2004). The results confirmed that Chinese investors put less
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38 weight in risk ($z = -1.62, p < 0.05$), while put more weight on the relationship with team
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41 members, who are friend ($z = 1.64, p < 0.05$) and family ($z = 2.85, p < 0.01$) compare to
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44 stranger. Z-score on Source-friend between Chinese and Danish investor is high, but not reach
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47 significant level. Therefore, z -test confirms that H2b, H3a, and H3c get strong supports, but H1
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50 and H1a not.
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55 [Table 5]
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DISCUSSION

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5 Under a comparative institutional perspective we examined how institutional context
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8 influences angel investors' business project selection. One important finding is that institutions
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11 have significant impact on angel investor decision-making. Compared to Danish investors,
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14 Chinese angel investors would weight their relationships with start-up teams higher than
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17 Danish investors that they tend to invest in new ventures that have family members or friends
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20 on the entrepreneurial team, while Danish investors give more equal treatment to family
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23 members, friends, and strangers. These findings are supported by previous survey in GEM,
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26 although GEM has not identified the significance of differences. The aggregated GEM 2007
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29 adult population survey at the national level found that only 4.6% of Chinese angel investors
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32 would invest in a stranger, while 42% would invest in family and 47.6% would invest in a
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35 friend. Meanwhile, in Denmark, 17.1% would invest in a stranger, 36.3% in family, and 27.4%
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38 in a friend. Our results also shows that both Chinese and Danish investors tend to invest in
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41 opportunity with lower risk, while Chinese investors tend to weigh the risk less. These findings
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44 highlight the importance of the selection criteria differences between China and Denmark.
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47 However, do all these differences arise from the variances between relationship-based
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50 institution and rule-based institutions?
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56 A challenging explanation comes from the culture dimension. Although the GLOBE
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59 culture survey has not identified the significant difference between China and Denmark (see
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1 Table 2a for details), Hofstede’s (1991) culture dimension reveals that Chinese and Danish
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4 investors are sharply different in the Individualism-Collectivism dimension. The score for
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7 China was 20 (high collectivism) and for Denmark 74 (low collectivism) in the survey taken
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10 nearly 40 years ago. However, some scholars have recently argued that China values a strong
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13 inner self under Confucian traditional culture and could represent a more radical individualism
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16 than the Western one (Herrmann-Pillath, 2010). Others argue that a collectivism culture could
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19 move to individualism as a consequence of economic growth and modernization (Hamamura,
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22 2012). In addition, our result on H1 indicates that Chinese angel investors not more heavily
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25 rely on strong ties to seek investment opportunities than Denmark investors. Chinese investors
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28 may explore widely to discover qualified business plan. We therefore do not adopt this
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31 alternative perspective, although previous research shows that collectivism could partially
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34 explain the importance of strong ties in opportunity recognition within relationship-based
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37 institutions (Ma et al., 2011).
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42 This study makes contributions to the literature from several aspects. First, for theoretical
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45 contribution, we develop a theoretical comparative institutional perspective explaining why
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48 angel investors have different selection criteria under different institutional environments. We
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51 underscore the importance of whether the institutional context is relationship-based or
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54 rule-based in order to better understand entrepreneurial activities; “[t]ransactions of all kinds”
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57 at all levels of the firm or individual “are rife with . . . social connections” that have different
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1 institution support (Granovetter, 1985: 495-499). These different connections or ties could
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4 facilitate different trust levels via norms of reciprocity and successful cooperation in networks.
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7 They accordingly play a crucial and underappreciated role in fostering investments and
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10 entrepreneurial prosperity (Fukuyama, 1995).
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13 Second, we enrich the research on angel investors' investment decision-making polices.
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16 Our findings may help reconcile the discovery of previous research conducted in different
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19 countries that angel investors' behavior is slightly different in different countries and
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22 institutional contexts. This study suggests that findings from numerous single-country studies
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25 must be qualified with an explicit comparisons and discussion concerning the enabling and
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28 constraining forces of the institutional framework. We also show that national institutions can
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31 be conceptualized in a way that captures the critical variations across countries that then can be
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34 used to explain individual behavior under different contexts.
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39 Third, for methodology contribution, the use of policy capturing and HLM model enable
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42 us to empirically uncover the investor's emphasis on information while making informal
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45 investment decisions. Different from prior research conducted in a single-country setting, we
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48 examine at a larger picture and contrast China and Denmark as two distinct institutional
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51 settings. We conduct a between-countries comparison in order to explore the institutional
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54 contexts of informal investment. Perhaps the strongest message of our study is that given the
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57 same decision-making criteria, we must consider the context the individual investors are
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1 embedded within. At the individual level the political and market pressures faced by angel
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4 investors might also be faced by other economic actors such as top executives and
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7 entrepreneurs. The individuals making decisions are accordingly influenced by existing
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10 institutional realities. HLM model can help us to identify these influences at different levels.
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13 Lastly, for practical contribution, our findings can help policymakers promote a good
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16 entrepreneurship policy. We reveal the shortfalls of relationship-based institution in
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19 constraining the scale and scope of these ties. The weak legal protections and contract
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22 enforcement could make entrepreneurs and investors over-embedded in strong tie relationships,
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25 especially in start-up team. Policymakers might propose measures that help transform
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28 rule-based institution in extending the scale and scope of angel investors' support. Moreover,
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31 our finding can help entrepreneurs understand investors' selection criteria. According to many
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34 studies of private investment the rejection rates for investment proposals are high (Mason &
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37 Harrison, 1995). High rejection rates prompt the need to better understand both the processes
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40 and criteria that angel investors use to make their decisions. This study seeks to add the
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43 explanations to investors' selection criteria.
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47 48 **Limitations and Future Research** 49

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51 This study has some limitations that clearly encourage further research. First, we have not
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54 directly measured either the tie strength or intensity in the relationship between entrepreneurs
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57 and investors in our policy capturing approach. Future research should examine the role of
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1 strong versus weak ties in angel investors' decision-making policies along with the
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4 contribution of these ties to new venture performance. Collectively, such research can offer a
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7 detailed account of social relationships' effects on new venture investments.
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10 Second, this study is the first to show the different investor selection criteria between
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12 China and Denmark. However, do the differences between relationship-based and rule-based
13
14 institutions sufficiently explain this variance? Future research may include additional emerging
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16 economies such as Asian and Latin American countries as well as developed economies in the
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18 sample. After controlling for additional cultural variances, a replication of this study with other
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20 countries could address any generalizability concerns stemming from using a sample surveying
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22 only two countries.
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31 Third, we have not identified the selection criteria applied by angel investors that are
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33 different from those of formal venture capitalists. The literature already shows different
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35 investment criteria between angel investors and venture capitalists (Feeney et al., 1999; Van
36
37 Osnabrugge, 2000; Shepherd, Zacharakis, & Baron, 2003). However, little research has
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39 weighted these institutional influences on the different criteria applied by these two kinds of
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41 important investors. This study highlights the importance of a comparative institutional
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43 perspective on angel investor selection criteria, but remains to be done in order to fully
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45 understand the complexities of investors' decision-making in new ventures.
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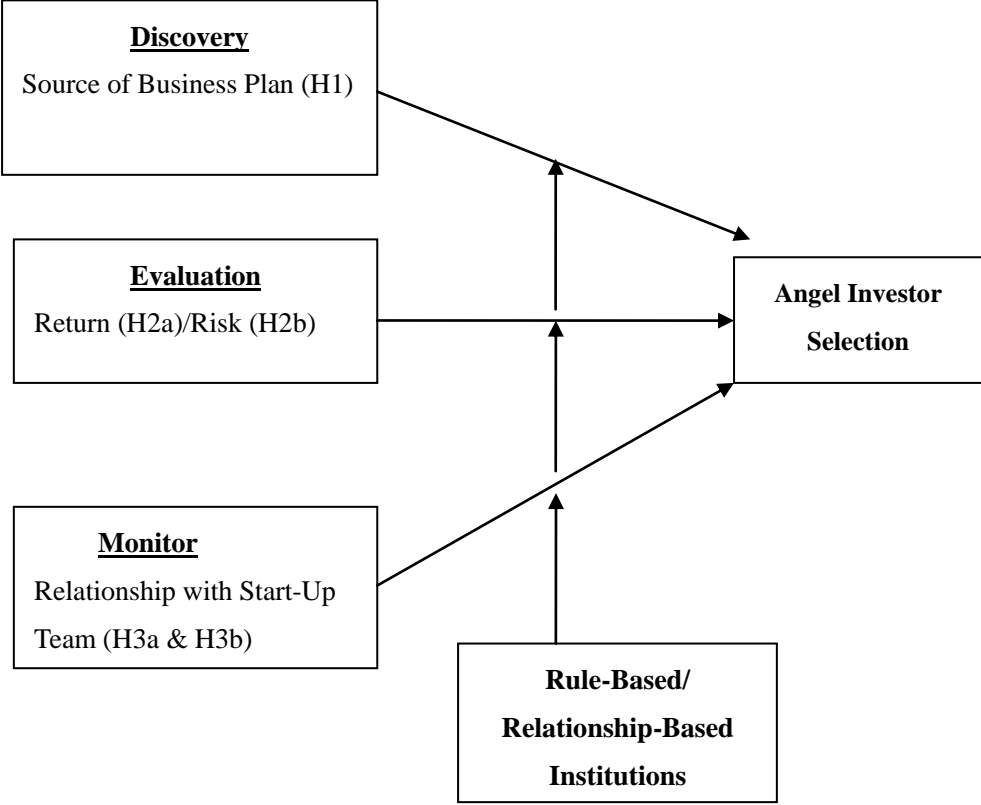
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Figure 1 Angel Investor Selection Criteria under an Institutional Comparative Perspective



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Table 1 Comparison of Rule-Based and Relationship-Based Institutions

	Institution	Relationship-Based Institution	Rule-Based Institution
Regulative Pillar	Characteristics	<ul style="list-style-type: none"> ● Lack of a good legal system with enough property rights and investor protection. ● Personalized network-based transactions. ● Enforcing contracts: out-of-court settlement, informal process, relying on personal trust, informal agreements, and social tie pressure from trading partner or community. ● Capital market: immature and limited access. ● Bankruptcy: a lengthy and inefficient, time-consuming process, firm operations may or may not cease depending on negotiations, difficult for entrepreneur to exit from debt claims. ● Competition: limited access. 	<ul style="list-style-type: none"> ● A well-codified legal infrastructure such as commercial law, corporate law, and contract law with sophisticated property right and investor protections. ● Impersonal arm's length transactions. ● Enforcing contracts: formal process, relying on effective third-parties such as courts and lawyers. ● Capital market: mature, large force in firm valuation, financing, and investment exit. ● Bankruptcy: bankrupt entrepreneurs exit the firm and creditors claim firm assets through court intervention. Firm operations cease (Lee et al., 2007). ● Competition: open access (North, Wallis, & Weingast, 2009), encouraging new entries and stimulating surviving firms to become more efficient.
	Entrepreneur's Response	<ul style="list-style-type: none"> ● Build loosely structured entrepreneurial networks to compensate for lack of formal institutional protection (Xin & Pearce, 1996). ● Access critical resources with informal collaboration under informal institutions (Webb et al., 2009). 	<ul style="list-style-type: none"> ● Interact with strangers to start and develop businesses. ● Access rich resources with formal institution's support.
	Angel Investor's responses	<ul style="list-style-type: none"> ● Rely on strong ties: provide trust and predictability but consume time and effect to build (Peng & Zhou, 2005). 	<ul style="list-style-type: none"> ● Rely on weak ties: more heterogeneous information and investment opportunities (Peng & Zhou, 2005).
Normative Pillar	Characteristics	<ul style="list-style-type: none"> ● Rules are opaque and ambiguous. ● Public-private boundaries is blurred (Peng, 2001). ● Grey and informal (even renegade) economy (Webb et al., 2009). ● Pervasive adoption of family business groups and crony capitalism in Asia (Carney, Gedajlovic, & Yang, 2009). ● Concentrating economic power under powerful families in Latin America (Bruton et al., 2009). 	<ul style="list-style-type: none"> ● Rules are stable and transparent. ● Government and business have clear lines. ● Trust strangers and outsiders.
	Entrepreneur's Responses	<ul style="list-style-type: none"> ● Cultivate two sets of networks: 1/ suppliers, buyers, and alliances; 2/ rent-seeking government officials due to harassment from the government (Peng, 2001). ● Discover, evaluate and exploit opportunity through strong ties (Ma et al., 2011). ● Relationships with ties located in distant cities are harder to manage than local ties (McMillan & Woodruff, 2002). 	<ul style="list-style-type: none"> ● Explore and create new market with new technology. ● Discover, evaluate, and exploit opportunity through weak ties (Ma et al., 2011).
	Angel Investor's Responses	<ul style="list-style-type: none"> ● Cultivate strong ties which have good relationship to <i>exploit</i> investment opportunities such as linking to powerful families within the region (Bruton et al., 2009; Peng & Zhou, 2005). 	<ul style="list-style-type: none"> ● Establishing diversified weak ties to <i>explore</i> investment opportunities. ● Heavily rely on references to entrepreneur's personality.
Co	Characteristics	<ul style="list-style-type: none"> ● Broadly held personal beliefs regarding responsibility. 	<ul style="list-style-type: none"> ● Beliefs and values centered on market competition.

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Entrepreneur's Responses	<ul style="list-style-type: none"> ● Cushion effect: mutual help and support among in-group members. ● Partner with strong ties to avoid adverse selection. Could be overembedded in family and social ties (Ahlstrom et al., 2007). Lost "face" if violating the investor's rights. ● Bribing is justifiable (Djankov, Qian, Roland, & Zhuravskaya, 2006). ● A group's collective identity enhance the opportunity recognition (Webb et al., 2009). ● Strong attitude that the firm is theirs, and the investor should not interfere (Bruton et al., 2009). 	<ul style="list-style-type: none"> ● Focus competition based on market-based capabilities. ● Keeps fiduciary duty to investor.
Angel Investor's Responses	<ul style="list-style-type: none"> ● Investment criteria emphasize human capital factors (leadership, market familiarity, and start-up experiences) (Zacharakis et al., 2007). 	<ul style="list-style-type: none"> ● Investment criteria more emphasize market factors (market size, market growth, propriety technology, number of competitor, and competitor strength) (Zacharakis et al., 2007).

Table 2a China and Denmark Comparison from Other Data Sources

Items	China/Chinese	Denmark/Danish	Source
Area	9,596,961 sq km	43,094 sq km	CIA Database
Ethnic Groups	Han 91.5% (other 55 minor)	7	CIA Database
Population 2011	1,336,718,015 (rank 1)	5,529,888 (rank 111)	CIA Database
Administrative Divisions	32 Provinces/Autonomous Regions/Municipalities	5 regions	CIA Database
GDP (purchasing power parity) 2011	\$11300 Billion (rank 3)	\$208.8 billion (rank 54)	CIA Database
GDP Growth 2011	9.5% (rank 6)	1.5% (rank 177)	CIA Database
Commercial Bank Prime Lending Rate	6.6% (rank 157)	4.5% (rank 170)	CIA Database
Economic Freedom Rank 2012	138	11	Heritage Foundation
Corruption Perceptions Index 2011	3.6 (No. 76)	9.4 (No.2)	Transparency International
Early-Stage Entrepreneurship Activities (TEA: percentage of adults)	24.0%	4.6%	GEM 2011
Angel Investor Prevalence Rate	9.41%	2.05%	GEM 2007
Discontinuation of Business	5.3%	2.3%	GEM 2011
Fear of Failure	35.6%	40.5	GEM 2011
Corporate Governance	-0.52	1.84	World Bank Governance Index
Social Trust	55.3%	58.3%	World Value Survey
Divorce/Marriage Ratio	22.03%	42.25%	World Bank
Public Social Security Expenditure	5.97%	27.1%	La Porta, et al., 1997
Highest Rates of Personal Income Tax 2010	45%	55.4%	KPMG
Materialist	23.5%	3.6%	World Value Survey/ Inglehart's Indicators
Postmaterialist	0.3%	7.2%	World Value Survey/ Inglehart's Indicators
Culture			
Performance Orientation (practice)	4.45	4.22	GLOBE
Performance Orientation (value)	5.67	5.61	GLOBE
Uncertainty Avoidance (practice)	4.94	5.22	GLOBE
Uncertainty Avoidance (value)	5.28	3.82	GLOBE
Humane Orientation (practice)	4.36	4.44	GLOBE
Humane Orientation (value)	5.32	5.45	GLOBE
Institutional Collectivism (practice)	4.56	4.19	GLOBE
Institutional Collectivism (value)	4.77	4.8	GLOBE
Ingroup Collectivism (practice)	5.8	3.53	GLOBE
Ingroup Collectivism (value)	5.09	5.5	GLOBE
Assertiveness (practice)	3.76	3.8	GLOBE
Assertiveness (value)	5.44	3.39	GLOBE
Power Distance (practice)	5.04	3.89	GLOBE
Power Distance (value)	3.1	2.76	GLOBE
Future Orientation (practice)	3.75	4.44	GLOBE
Future Orientation (value)	4.73	4.33	GLOBE

Table 2b Comparison of China and Denmark: World Bank Doing Business Report 2011

Rankings	China	Denmark	Indicator Detail	China	Denmark
Ease of Doing Business	79	6			
Acquiring Credit	65	15	Strength of Legal Rights Index (0-10)	6	9
			Depth of Credit Information Index (0-6)	4	4
			Public Registry Coverage (% of adults)	63.9	0.0
			Private Bureau Coverage (% of adults)	0.0	5.4
Protecting Investors	93	28	Extent of Disclosure Index (0-10)	10	7
			Extent of Director Liability Index (0-10)	1	5
			Ease of Shareholder Suits Index (0-10)	4	7
			Strength of Investor Protection Index (0-10)	5.0	6.3
Trading Across Borders	50	5	Documents to Export (number)	7	4
			Time to Export (days)	21	5
			Cost to Export (US\$ per container)	500	744
			Documents to Import (number)	5	3
			Time to import (days)	24	5
			Cost to import (US\$ per container)	545	744
Closing a Business	68	5	Recovery Rate (cents on the dollar)	36.4	89.4
			Time (years)	1.7	1.1
			Cost (% of estate)	22	4

Table 3 Selection Criteria of Angel Investor

Variables	Description
Main Variables	
Source of Business Plan (H1)	1. Cold call by the startup team; 2.personal friends; 3. professional market intermediary.
Investment Return (H2a)	Scale ranging from 1(low return) to 3 (high return).
Risk of Failure (H2b)	Scale ranging from 1 (possibly huge loss) to 3 (possibly little loss).
Relationship between Investor and Members of Start-up Team (H3a&b)	1. Strangers; 2.friends; 3.family.
Control Variables	
Compatibility with Investor Expertise and Interest	Scale ranging from 1 (low compatibility) to 3 (high compatibility).
Start-up Team Capabilities and Track Record	Scale ranging from 1 (no good) to 3 (very good).
Opportunity for Involvement in New Venture	Scale ranging from 1 (not at all) to 3 (likely).
Exit Plan	1. No exit plan; 2.exit plan exists.

Table 4 Descriptive Statistics and Correlations for Level-1 and Level-2 Variables

	Mean	S.D.	1	2	3	4	5	6	7	8	9	10
1.Relation-Friend	0.50	0.500										
2.Relation-Family	0.26	0.441	-0.592									
3.Return	2.00	0.706	-0.046	0.037								
4.Risk	2.03	0.704	0.010	-0.023	-0.029							
5.Source- Professional	0.50	0.500	0.017	-0.020	-0.043	0.000						
6.Source- Friend	0.24	0.426	-0.018	0.037	0.038	-0.067	-0.559					
7.Compatibility	2.03	0.688	0.004	0.029	0.016	0.007	0.035	0.048				
8.Team Capability	1.95	0.699	-0.032	0.022	-0.005	0.007	-0.047	-0.019	0.012			
9.Involvement	2.05	0.713	-0.011	-0.001	0.003	0.004	-0.023	-0.019	0.035	-0.010		
10.Exit	0.66	0.633	-0.020	0.073	-0.049	-0.035	0.040	0.004	0.009	0.013	0.034	
11.Investment tendency	2.86	1.096	0.035	0.070	0.241	0.344	0.074	0.014	0.208	0.261	0.115	0.099

Level-2 Variables ^b	Mean	S.D.	1	2	3	4	5	6
1.Age	2.32	0.485						
2.Gender	1.06	0.612	-0.261					
3.Income	2.03	1.096	0.489	-0.269				
4.Education	4.51	0.565	-0.071	-0.111	0.122			
5.Informal Investment	0.04	0.201	-0.137	-0.020	-0.006	0.108		
6.Finance Investment	0.67	0.473	0.281	-0.367	0.431	0.387	0.147	
7.Start-up Experience	0.27	0.618	0.359	-0.290	0.402	-0.005	0.387	0.152

^a n1 =904;

^b n2 =113.

Table 5 China and Denmark Comparison-HLM Regression

	Full Sample (China and Denmark)			China	Denmark	z (Difference Tests)
	Model 1	Model 2	Model 3	Model 4	Model5	
Level -1						
Independent Variable						
Source- Friend	0.308 (0.091)***	0.308 (0.091)***	0.357 (0.086)***	0.408 (0.113)***	0.216 (0.119)+	1.1
Return	0.590 (0.041)***	0.591 (0.041)***	0.592 (0.039)***	0.601 (0.056)***	0.582 (0.058)***	0.15
Risk	0.411 (0.049)***	0.411 (0.049)***	0.414 (0.046)***	0.291 (0.063)***	0.547 (0.059)***	-1.62*
Relation-Friend	0.263 (0.077)***	0.264 (0.077)***	0.264 (0.071)***	0.430 (0.106)***	0.141 (0.101)	1.64*
Relation-Family	0.304 (0.085)***	0.304 (0.086)***	0.271(0.083)**	0.549 (0.114)***	0.064 (0.114)	2.85**
Control Variables						
Source- Professional	0.352 (0.081)***	0.353 (0.081)***	0.382 (0.076)***	0.436 (0.116)***	0.233 (0.104)*	
Compatibility	0.298 (0.044)***	0.301 (0.045)***	0.317 (0.040)***	0.354 (0.057)***	0.435 (0.061)***	
Team Capability	0.439 (0.049)***	0.440 (0.049)***	0.453 (0.045)***	0.423 (0.057)***	0.244 (0.062)***	
Involvement	0.165 (0.037)***	0.162 (0.037)***	0.165 (0.037)***	0.124 (0.055)*	0.195 (0.058)***	
Exit	0.269 (0.065)***	0.281 (0.068)***	0.287 (0.062)***	0.272 (0.078)***	0.313 (0.077)***	
Level-2						
Control Variables						
Age		-0.056 (0.123)	-0.042 (0.126)	0.006 (0.146)	-0.445 (0.280)	
Gender		0.026 (0.084)	0.024 (0.093)	0.112 (0.175)	-0.041 (0.127)	
Income		0.013 (0.044)	0.026 (0.059)	-0.007 (0.070)	0.031 (0.132)	
Education		-0.089 (0.075)	-0.072 (0.076)	-0.029 (0.112)	-0.022 (0.132)	
Informal Investment		0.044 (0.223)	-0.032 (0.208)	-0.311 (0.364)	0.771 (0.474)	
Finance Investment		-0.043 (0.114)	-0.072 (0.113)	-0.076 (0.236)	-0.134 (0.131)	
Start-up Experience		0.132 (0.138)	0.098 (0.122)			
China			0.037 (0.188)			
Interaction						
China*Source-Friend (H1)			0.275 (0.176)			
China* Return (H2a)			0.024 (0.076)			
China* Risk (H2b)			-0.234 (0.092)*			
China*Relation-Friend (H3a)			0.233 (0.137)+			
China*Relation-Family (H3b)			0.368 (0.166)*			
Intercept	2.788 (0.044)***	2.789 (0.043)***	2.785 (0.043)***	2.820 (0.064)***	2.751 (0.058)***	
Sample	904	904	904	480	424	
R-squared	34.24%	33.57%	47.93%	30.24%	38.06%	

The number in parenthesis is the standard error. + p < 0.10; * p < 0.05; ** p < 0.01; *** p < 0.001.