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Elena Obukhova & Letian Zhang

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# Social Capital and Job Search in Urban China: The Strength-of-Strong-Ties Hypothesis Revisited

Elena Obukhova, *Desautels Faculty of Management,  
McGill University, Montreal, Canada*  
Letian Zhang, *Department of Sociology, Harvard University,  
Cambridge, MA, USA*

*Abstract: The Strength-of-Strong-Ties Hypothesis (SSTH) suggests that because of cultural and institutional factors, Chinese job seekers benefit more from their strong social ties than weak ones. However, the methodology used to support SSTH has not been subjected to robust empirical examination. Using data from job searches of 172 Chinese college graduates, we compared findings from the commonly used direct effects methodology, which examines the effect on income of the strength of a tie used to find a job, with the more robust social capital methodology, which examines the effect of network resources. We found that compared to the latter, the former overstates the effect of strong ties on getting a high-paying job and understates the effect of weak ties. We discuss methodological and substantive implications of our results for further study of social networks in China.*

## Introduction

The Strength-of-Weak-Ties Hypothesis (SWTH) states that a job seeker's weak ties—those people the job seeker does not know well—lead to better labor-market outcomes than a job seeker's strong ties—those the job seeker knows well. Because an individual's strong ties are more likely to belong to

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Address correspondence to Elena Obukhova, Desautels Faculty of Management, McGill University, 1001 Sherbrooke St. West, Rm 483, Montreal, QC H3A 1G5, Canada. E-mail: [elena.obukhova@mcgill.ca](mailto:elena.obukhova@mcgill.ca)

the same social circles as that person, weak ties are more likely to offer information from different social circles (Burt 1992; Granovetter 1974/1995). Furthermore, because stronger social relationships tend to develop between those who are socially similar (McPherson, Smith-Lovin, and Cook 2001), a job seeker's strong ties are likely to have status equal to themselves, while their weak ties are more likely to include higher status individuals with access to valuable resources (Lin, Vaughn, and Ensel 1981; Lin 1982). Supporting these theoretical predictions, most studies of Western market economies find evidence consistent with the SWTH (see Granovetter 1995; Lin 1999; Marsden and Gorman 2001; Castilla, Lan, and Rissing 2013, for reviews).

While the SWTH is intuitively plausible and appears to be well supported by research in Western market economies, many studies have found the opposite in China (Bian 1994, 1997, 2002; Cheung and Gui 2006; Bian and Huang 2009; Lu, Ruan, and Lai 2013; Bian, Huang, and Zhang 2015). These findings have led to the development of the Strength-of-Strong-Ties Hypothesis (SSTH), an influential line of theorizing about the effect of cultural and institutional factors on the role of social networks in labor markets in China. Some scholars argued that strong ties are more beneficial because Chinese culture invests strong ties with trust and obligations and leads people to mistrust weak ties (Bian and Ang 1997; see also Xiao and Tsui 2007). In addition, three institutional factors have been proposed as contributing to making strong ties particularly advantageous for job searches in China: the state assignment system (Bian 1997), institutional holes (Bian 2002; Bian and Huang 2009), and influence peddling (Bian, Huang, and Zhang 2015; Tian and Lin 2016).

Despite the theoretical importance of conclusions drawn from these studies, most research on social networks in China has relied on what Mouw (2003) called the direct effects methodology, which examines the direct effects of the strength of the tie used to find a job on the job seeker's labor-market outcome (e.g., income). This methodology is potentially problematic because researchers focus on the contacts that led to jobs, not the strength of the ties that did not lead to jobs (Granovetter 1995; Mouw 2003; Chen 2011; Krug 2011; Obukhova 2012). Using an analytical model, Montgomery (1992) demonstrated that this methodology can lead to wrong conclusions about the value of weak and strong ties for job seekers (see Mouw 2003, for generalization). Instead, Montgomery advocated for what he termed the social capital methodology, which examines the relationship between labor-market outcomes and the resources available to a job seeker through both weak and strong ties (see Lin 2001, for a theoretical elaboration).

In this article we use the job-search histories of 172 graduating university students in China to compare the effect of using the direct effects methodology with the social capital methodology to estimate the effect of strong ties

on income in China. An important advantage of our research site is that it allowed us to collect detailed data necessary to conduct a cross-method comparison. We found that compared to the social capital methodology, the direct effects methodology overstates the effects of strong ties on getting a high-paying job and understates the effects of weak ties. While it is premature to generalize our results to other segments of the Chinese labor market, our results raise a possibility that the empirical support for SSTH in China might in part be an artifact of using direct effect methodology. Furthermore, our findings suggest that whether job seekers benefit from strong or weak ties depends on their institutional contexts (McDonald, Benton, and Warner 2012; Zhao 2013; Sharone 2014).

### Literature Review

As noted above, the SWTH has been well established in Western market economies, while other studies found that Chinese job seekers benefitted more from strong ties than weak ones (e.g., Bian 1994, 2002; Cheung and Gui 2006; Bian and Huang 2009; Lu, Ruan, and Lai 2013; Bian, Huang, and Zhang 2015). In particular, Bian (1994) discovered that those who found jobs through strong ties had jobs in higher-ranked work units than those who found jobs through weak ties. Many studies corroborated these results using different samples and outcome variables; for example, Cheung and Gui (2006) reported that the strength of a tie was correlated with both income and job satisfaction; Lu, Ruan, and Lai (2013) found that the number of strong ties was associated with higher income; and, most recently, Bian, Huang, and Zhang (2015) showed that those who received help from strong ties were more likely to obtain jobs with superior earning opportunities.

Explanations for these findings tend to emphasize a combination of cultural and institutional factors. Some researchers (e.g., Bian and Ang 1997; Cheung and Gui 2006) pointed to aspects of Chinese culture that lead people to view strong ties with trust and obligation and to mistrust weak ties. Research suggests that Chinese people tend to place heavy emphasis on family and close friendships (Bian 1997) and some scholars have argued that this cultural propensity to rely on strong ties extends to other Asian societies with Confucian heritage (e.g., Bian and Ikeda 2014). Consistent with this theorizing, some studies found that, in the Chinese culture, people do not benefit from networks rich in weak ties in the same way as those in Western culture do (see Xiao and Tsui 2007, for China; see Ma, Huang, and Shenkar 2011, for Taiwan). These arguments suggest that, regardless of changes in China's labor-market institutions, Chinese job seekers benefit more from strong ties than from weak ones.

In addition to cultural predisposition, there are three institutional factors that have been proposed as contributing to making strong ties particularly

useful for job searches in China. The first is the state-assignment system that existed in China until the late 1980s. Bian (1994) argued that when the state assigned people to jobs, job seekers used their contacts to influence the job-assignment process. Because going around the job-assignment process was potentially dangerous for both job seekers and contacts trying to help them, people typically sought help from and offered help to only those whom they could trust—that is, their strong ties. Similarly, studies of other socialist economies suggested that when people used ties to engage in activities that were potentially illegal, such as obtaining scarce goods through grey channels, they often turned to strong ties (see Völker and Flap 1999, 2001, for the former GDR; see Michailova and Worm 2003, for the former USSR).

Yet, this explanation, while compelling, cannot account for why studies continued to find support for the SSTH, even after the dismantling of the state-assignment system (e.g., Bian 2002; Cheung and Gui 2006; Bian and Huang 2009; Lu, Ruan, and Lai 2013; Bian, Huang, and Zhang 2015). An alternative explanation proposed a second institutional factor to account for SSTH in China—the emergence of institutional holes in China's labor markets after the end of the state assignment system. Institutional holes are imperfections in formal institutions that make it difficult to transmit information, build trust, and create obligations between job seekers and employers (Bian 2002; Bian and Huang 2009). It follows that because strong ties are more trusted and more likely to convey complex information, they are more useful than weak ties in helping job seekers and employers to bridge institutional holes (e.g., Lu, Ruan, and Lai 2013). These arguments suggest that as Chinese labor markets develop and institutional holes are filled, the advantages of strong ties will decline (Zhao 2013).

More recently, scholars have proposed that the continuing dominance of the state in the Chinese economy and the attendant importance of influence peddling is the third factor to account for SSTH in China (e.g., Bian, Huang, and Zhang 2015; Tian and Lin 2016). Scholars noted that even as institutional holes were being filled, strong ties retained some of their advantages. For example, Tian and Lin (2016) argued that because of the path-dependent character of market reform in China, employers, particularly in the state sector, were constrained by preexisting embeddedness in relationships with government officials. Accordingly, the probability of finding a job through strong ties in the state sector increased during the reform process. Similarly, Bian, Huang, and Zhang (2015) argued that strong ties are better conduits for favoritism than weak ties, and that job seekers who can get access to influence were more likely to get positions with superior earning opportunities, including those in the state sector.

Although studies have elaborated compelling theoretical reasons to explain why the SSTH persists in China, we do not know if their empirical findings might be, in part, a methodological artifact. In particular, most research conducted in China that found support for the SSTH relied on a

potentially problematic methodology (Montgomery 1992; Mouw 2003; cf. Lu, Ruan, and Lai 2013), thus raising questions about the empirical foundations for the SSTH claims (Chen 2011). Below, we discuss shortcomings of the commonly used methodology and how a more robust alternative methodology can overcome these shortcomings. We explain our analytical strategy of testing both the SSTH and the SWTH using direct effects and social capital methodologies to evaluate whether the results of the two methods lead to the same conclusions.

### *Methodological Reasons to Revisit the SSTH in China*

Many studies of social networks in labor markets in China used the direct effects methodology, in which researchers asked job seekers about the method by which they found their jobs; the researchers then compared labor-market outcomes (such as income or ownership of the work unit) for those who found jobs through weak ties to those who found jobs through strong ties. This means they considered only those contacts that led to jobs and ignored those that did not (Montgomery 1992; Granovetter 1995; Mouw 2003; Chen 2011; Krug 2011; Obukhova 2012). Using an analytic model, Montgomery (1992) demonstrated that, even if weak ties were more likely than strong ties to lead to job opportunities or to lead to better job opportunities, if only the association between the strength of a tie used to find a job and the labor-market outcome was examined, the researchers might reach the erroneous conclusion that strong ties are better than weak ones (see Mouw 2003, for a generalization of Montgomery's model).

The key to this counterintuitive result is that the quality of a job found reflects the quality of opportunities available to a job seeker, not the effect of a tie used to get this job. Consider one job seeker who has a network with one strong and one weak tie, and another job seeker who has only one weak tie. It might be expected that, because the first job seeker has a richer network than the second (two ties versus one), that person would have more opportunities, and therefore it would be expected that this job seeker would end up with a higher paying job than the second job seeker.<sup>1</sup> Keep in mind, though, that the first job seeker might have found his or her job through either the strong tie or the weak one. In contrast, the second job seeker must have found his or her job through the weak tie. Thus, in this example, if the job seekers' total number of ties were not counted, it is possible to mistakenly conclude that strong ties are associated with higher wages, rather than that the first job seeker had more opportunities to begin with. The conclusion of this model is that a relationship between labor-market outcomes for those who found jobs through strong ties and those who found jobs through weak ties cannot be taken as indications that strong ties are more beneficial than weak ones, or vice versa.

This potential problem with the direct effects methodology led many researchers to adopt the social capital methodology (e.g., Lin, Vaughn, and Ensel 1981; De Graaf and Flap 1988; Boxman, De Graaf, and Flap 1991; Barbulescu 2015; Chen and Volker 2016). Drawing on the concept of social capital, which Lin (1999: 468) defined as “resources that are accessible through one’s direct and indirect ties,” this methodology examines resources a job seeker can access through his or her network (Lin and Dumin 1986; Lin 1999). The key argument of social capital theory is that better connected people have better outcomes because they can have access to more information (Granovetter 1974/1995; Burt 1992) or because they can reach out to higher status contacts (Lin, Vaughn, and Ensel 1981; Bian 1997). Accordingly, social capital theory implies that the relationship between the number of strong and weak ties available to the job seeker and the labor-market outcomes need to be examined (see Lin 1999, for review).

Although the social capital methodology offers an important advance over the direct effects methodology, it also has a shortcoming (Mouw, 2003, 2006; Chen 2011; see Manski 1995, for a more general statement of this problem). A recent reexamination of the literature argues that much of the effect found in social capital studies might, in fact, reflect “the tendency of similar people to become friends rather than a causal effect of friend’s characteristics” (Mouw 2003: 868). Specifically, as with most cross-sectional studies, the direct effects methodology cannot control for unobserved heterogeneity that may be correlated both with the job seeker’s social network and with the outcome of the job search. For example, the association between the number of weak ties and labor-market outcomes could be spurious, because it is plausible that job seekers who are amicable or charismatic are likely to have both more weak ties and better labor-market outcomes.

In China only one study employed the social capital methodology to find support for the SSTH among Shanghai residents (see Lu, Ruan, and Lai 2013). This study, however, suffered from limitations due its cross-sectional design. As Lu, Ruan, and Lai (2013: 363) acknowledged, they could not establish that strong ties *enabled* a job seeker to find higher paying work. Rather, it is possible that those who achieved higher status jobs were able to create stronger ties than those who did not achieve such jobs. This concern is particularly pronounced given that Lu and colleague’s study had information on respondents’ social networks at the time of their survey, yet respondents often had found jobs many years earlier. There is compelling evidence to suggest that social networks evolve to reflect one’s social position (Lin and Dumin 1986).

One way to strengthen the causal claims of such studies is to examine variations in the usefulness of strong and weak ties for the *same* job seeker (Yakubovich 2005; see also Obukhova 2012; Obukhova and Lan 2013; Fernandez and Galperin 2014; Greenberg and Fernandez 2016). This

Table 1

**Summary of the SSTH and the SWTH Tests Using Alternative Methodologies**

Tests	SSTH	SWTH
Direct effects methodology	H1a: Job seekers who find a job through a strong tie have a higher income than those who find a job through a weak tie.	H2a: Job seekers who find a job through a weak tie have a higher income than those who find a job through a strong tie.
Social resource methodology	H1b: Job seekers who have more strong ties have a higher income than those who have fewer strong ties.	H2b: Job seekers who have more weak ties have a higher income than those who have fewer weak ties.
Within-individual methodology	H1c: Job seekers who use both a strong and a weak tie in a job search are more likely to get help from a strong tie than a weak tie.	H2c: Job seekers who use both a strong and a weak tie in a job search are more likely to get help from a weak tie than a strong tie.

*Note:* SSTH = Strength-of-Strong-Ties Hypothesis; SWTH = Strength-of-Weak-Ties Hypothesis.

within-individual methodology takes information on the multiple contacts that a job seeker used in the job-search process and uses individual fixed-effect models to compare the relative effectiveness of weak and strong ties. A similar solution to omitted-variable factors has been widely adopted in studies that exploit within-individual variations using panel data (e.g., Mouw 2002, 2003; McDonald, 2011).

In this study we use both the direct effects methodology and the social capital methodology to understand how they might each shape the evaluation of the SSTH and the SWTH in China (see Table 1). First, we employ the direct effects methodology to examine the relationship between the strength of the tie used to find a job and the job seeker’s income. Second, we employ the social capital methodology to examine the relationship between the job seeker’s social capital and income. Last, to strengthen the claims of causality of the social capital methodology, we use individual fixed effects to see if the same job seeker was more likely to get help from a strong or weak tie. If the conclusions of the direct effects methodology differ from the social capital methodology, this indicates that method choice can influence conclusions.

**Data and Methods**

Our data were collected in summer 2011 at four universities in southern China. Two universities are located in Hangzhou, the capital of Zhejiang

Province, and the other two are in Kunming, the capital of Yunnan Province. Zhejiang Province, which neighbors Shanghai, is one of the most rapidly developing provinces in China, with a per capita gross domestic product (GDP) of over US\$9,000. Yunnan Province, bordering Myanmar, Laos, and Vietnam, and home to many ethnic minorities, is one of the slower growing regions, with a per capita GDP of less than US \$3,000. These four universities vary widely in quality: one is consistently ranked as a top school in China, two are mid-range schools, and the other is a low-ranked school.

The survey module on job search was included in a larger survey designed to investigate education quality, with a special focus on business and management majors. Following Yakubovich (2005), we asked students to list up to five contacts whom they could have asked for help in their job search. Then, for each contact, students indicated (a) if they were emotionally close to the contact, and (b) the type of relationship (students were given four choices: acquaintance, professor, friend, and family member). Also, for each contact, we asked whether the contact had provided help in job search. Elsewhere in the survey, the students were asked to provide information about the income of the job they found, as well as demographic information. School administrators distributed the survey to selected "classrooms": groups of 30 to 40 students who took most of their courses together.

Our sample was comprised of 172 students who both found jobs and provided information about their income. Because the survey was administered well before graduation, only 490 had found a job at the time of the survey.<sup>2</sup> Out of 490, 172 reported income. It is important to note that some nonresponses on the income question might be due to the fact that at hiring, employers give students only an income range, so the exact income is determined after completion of a probationary period. Nevertheless, to test for a potential response bias, we examined factors including gender, self-reported class rank, urban *hukou* (residential registration) status, and Chinese Communist Party (CCP) membership to see if any particular factor affected who did and did not provide income information. We did not find any statistically significant differences with respect to any of these variables.

It is important to acknowledge both the advantages and limitations of our data. Our strategic research site has enabled us to collect very detailed job search data. In contrast to mid-career workers who might intermittently look for new jobs, graduating students engage in an intense spurt of search activity over a relatively short timeframe. This means they are more likely to have more specific recall of their multiple contacts than those changing jobs mid-career, and a researcher can therefore collect detailed data. However, it is important to acknowledge that the unique aspects of our research setting, the nonrandom sampling process and the sample loss due to nonresponse can all potentially lead to biased estimates. Nevertheless, because our goal is to compare results derived from the application of the two methods to

the same dataset, any bias that might have resulted from these factors is unlikely to affect the results of our cross-method comparison. For that to be the case, the bias would have to affect results of one methodology differently than the other. While this is certainly possible, we are not aware of any process that can cause this to occur in our case.

### *Variables and Models: Direct Effects and Social Capital Tests*

To conduct the direct effects and social capital tests we used ordinary least squares (OLS) regression. The dependent variable was a student's future monthly income. Income is the most commonly used measure of job-search outcomes in studies in Western market economies (see Mouw 2003, for review). This was not always the case in China. When the degree of state control of the Chinese economy was high, scholars persuasively argued that income might not be as accurate a reflection of one's social position in the planned economy as the position of one's work unit in the bureaucratic structure (e.g., Bian 1994; Walder 1995). However, as the influence of markets spread in the Chinese economy, the position of the work unit in the bureaucracy became a less important predictor of income or status (Bian and Logan 1996); thus, studies increasingly used income as a measure of labor-market success in China (e.g., Cheng and Gui 2006; Lu, Ruan, and Lai 2013).

For our independent variables, we used two indicators of tie strength that captured different dimensions of this concept (see Bian 1994; Tian and Lin 2016). Our first indicator was *emotional closeness*, a key element of Granovetter's (1974/1995) original conception of tie strength. Marsden and Campbell (1984; see also Marsden and Campbell 2012) identified emotional closeness as the most reliable indicator of tie strength.<sup>3</sup> Following existing studies, we also used the *relationship type* between the job seeker and the contact (i.e., whether the contact was an acquaintance, professor, friend, or family member) as an indicator of tie strength. It is generally assumed that acquaintances are weak ties. In our analyses we considered family and friends as strong ties. In China many researchers agree that family and friendship ties are strong, in that they carry considerable sentiment and unconditional obligation (Bian 1997; Obukhova 2012; Lu, Ruan, and Lai 2013). We expected that ties to professors are of intermediary strength.

Using both measures of tie strength, we created independent variables for each methodology. For the direct effects methodology, we focused on how the student found a job. We created a dummy, *close contact led to job*, coded 1 if the student indicated a job had been found through a contact, and this contact was emotionally close. Similarly, we created dummy variables *acquaintance led to job*, *professor led to job*, *friend led to job*, and *family member led to job*. Because some students in our sample found their jobs

through the marketplace, we also created a dummy, *through market*, coded 1 if the student found a job this way. For the social capital methodology, we focused on the number of contacts a student had available. We created count variables, *number of close contacts* and *number of distant contacts*, measuring the number of contacts students indicated they had available and who they were or were not emotionally close to. We also created count variables for contacts of each relationship type: *number of acquaintances*, *number of professors*, *number of friends*, and *number of family members*.

Our models included a variety of individual-level controls that previous research suggested as important in our setting (e.g., Bian 1997; Obukhova 2012). Specifically, we controlled for students' gender, self-reported membership in the CCP, and self-reported class rank. Students reported their class rank on the scale *bottom 10 percent*, *below average*, *average*, *above average*, and *top 10 percent*. We also controlled for students' *hukou* status. Those who have urban *hukou* are likely have better access to educational and other opportunities than those who have rural *hukou* (Wu and Treiman 2004; Chan and Buckingham 2008). Most important for our analysis, rural *hukou* can limit job-search options. Finally, we controlled for students' family backgrounds using information about fathers' education, which were coded in three levels: *less than high school education*; *completion of high school education*, and *college education or above*.

### ***Variables and Models: Within-Individual Test***

To conduct a within-individual test, we employed a linear regression with individual fixed effects. The direct effects and social capital models used the individual as a unit of analysis, while the within-individual model used a contact that a student listed as available to help. Because error terms across contacts listed by the same individual are not independent, we then created a dummy variable (or fixed effect) for each student, the coefficient of which captured the difference between the intercept for this respondent and for the sample as a whole. This student dummy captured all of the student's observed and unobserved characteristics, mitigating concerns that the association between an individual's characteristics and labor-market outcomes was due to unobserved variables. As a result, we interpreted the remaining coefficients as the effects of tie strength on labor-market outcomes for the *same* individual.

Because a contact was the unit of analysis for within-individual models, we constructed new dependent and independent variables. We did not use income as a dependent variable for within-individual models because it was not possible to collect information on salaries for all the jobs a student applied for through each contact. This is a common limitation for studies that use the within-individual methodology. To date, only one study

(Greenberg and Fernandez 2016) was able to obtain information on compensation for multiple jobs. Instead, for each contact, we created the dummy variable *provided help* and coded it 1 if the contact provided help. The independent variables in our analysis were the characteristics of each contact. Specifically, for each contact, we created five dummy variables: *close contact*, *acquaintance*, *professor*, *friend*, and *family member*.

**Results**

Before we turn to the results of direct effects and social capital tests, we discuss some notable descriptive findings. Table 2 Rows 2–7 present descriptive statistics for the independent variables used in the direct effects

Table 2

**Descriptive Statistics for Variables Used in Strength-of-Strong-Ties Hypothesis Tests Using Direct Effect and Social Capital Methodologies**

		Mean	St. dev.
(1)	Income	4.994	0.262
	Method of finding a job		
(2)	Close contact led to job	0.551	–
(3)	Acquaintance led to job	0.052	–
(4)	Professor led to job	0.093	–
(5)	Friend led to job	0.248	–
(6)	Family member led to job	0.287	–
(7)	Found job through market	0.332	–
	Social capital		
(8)	Number of close contacts	1.351	0.882
(9)	Number of distant contacts	0.219	0.471
(10)	Number of acquaintance	0.145	0.384
(11)	Number of professors	0.246	0.501
(12)	Number of friends	0.582	0.578
(13)	Number of family members	0.580	0.557
	Student characteristics		
(14)	Male	0.470	–
(15)	Chinese Communist Party member	0.491	–
(16)	Urban resident	0.692	–
(17)	Class rank	2.452	0.991
(18)	Father education	0.561	0.738

models. In our sample, 55 percent of students found their jobs through close contacts. Turning to the type of relationship, 5 percent found their jobs through acquaintances, 9 percent through professors, 25 percent through friends, and 29 percent through family members. Also, note that 33 percent of the students found their jobs through the market methods. Table 2 Rows 8–13 present descriptive statistics for the independent variables used in the social capital models. On average, students listed 1.35 close contacts, 0.22 distant contacts, 0.15 acquaintances, 0.25 professors, 0.58 friends, and 0.58 family members.

We also found that 47 percent of our sample were male and 49 percent were CCP members. The average class rank was 2.45 (i.e., between *above average* and *average*); the modal answer was *average*. More than two-thirds of our sample was comprised of urban residents. In most cases, fathers' education was below high school. Also, bivariate correlations indicated that students who were CCP members tended to have a higher class rank than did non-CCP members. This is probably due to the fact that academic performance is a criterion in the selection of CCP members. Also, note that male students were less likely to be CCP members than female students and, on average, had lower class ranks. Nevertheless, male students tend to earn a higher income, a fact that partially explains the negative association between class rank and income in our sample. CCP members also reported higher salaries than non-CCP members.

### *Direct Effects Test*

To conduct a test of the SSTH and SWTH using the direct effects methodology (H1a and H2a in Table 1) we employed OLS regression to examine whether the strength of the tie that led to the job was associated with income (see Table 3). The results of models using closeness—but not relationship type—as an indicator of tie strength provided weak support for SSTH. Specifically, consistent with H1a, Model 1 indicates that students earn more when they find a job through a close tie than when they find one through a distant tie, although this result is only marginally significant ( $\beta = 0.89, p < 0.10$ ). Using the relationship type as our indicator of tie strength, Model 2 finds no support for SSTH or SWTH. It shows no significant relationship between income and finding a job through family or friends.<sup>4</sup> Overall, using the direct effects methodology, we found some empirical evidence supporting the SSTH but not the SWTH.

### *Social Capital Test*

To conduct a test of the SSTH and SWTH using the social capital methodology (H1b and H2b in Table 1) we employed OLS regression to examine whether students' social capital was associated with income (Table 4). The

Table 3

**SSTH Test Using Direct Effects Methodology: OLS Models of the Effect of Job-Finding Method on Monthly Income**

	Model 1	Model 2
Close contact led to job	0.894 <sup>+</sup> (0.505)	
Acquaintance led to job as the reference category		
Professor led to job		-1.044 (0.836)
Friend led to job		-1.191 (0.754)
Family member led to job		-1.081 (0.757)
Found job through market	0.406 (1.591)	-0.580 (1.755)
Class rank	0.285 (0.207)	0.288 (0.209)
Party member	0.691 <sup>+</sup> (0.376)	0.748 <sup>+</sup> (0.379)
Male	1.058* (0.360)	1.058* (0.369)
Urban resident	-0.073 (0.389)	-0.049 (0.396)
Father's education	0.200 (0.244)	0.255 (0.246)
Constant	2.575* (0.721)	4.326* (0.914)
Observations	172	172
R-squared	0.100	0.096

Notes: Unit of analysis is a student. All contact variables refer to the method through which the student found a job. Standard errors in parentheses; \* $p < 0.01$ , <sup>+</sup> $p < 0.10$ . OLS = ordinary least squares.

results of models using relationship type—but not closeness—as an indicator of tie strength are inconsistent with SSTH. Specifically, Model 1 indicates no relationship between the number of close ties and income. In Model 2, we found that the number of family members was not associated with income. Also, contrary to H1b, the number of friends was associated with lower income, but this effect was only marginally significant ( $\beta = 0.54, p < 0.10$ ). We also found support for SWTH. Specifically, consistent with H2b, we found that having more acquaintances was associated with higher income ( $\beta = 1.03, p < 0.01$ ). Overall, using the social capital methodology, we found some evidence contrary to the SSTH and some evidence supporting the SWTH.

**Within-Individual Test**

To conduct a within-individual test of the SSTH and SWTH (H1c and H2c in Table 1), we used linear probability models to explore the relationship between tie strength and the likelihood of getting help from the strong

Table 4

**SSTH Test Using Social Capital Methodology: OLS Models of the Effect of Social Capital on Monthly Income**

	Model 1	Model 2
Number of close contacts	0.035 (0.198)	
Number of distant contacts	-0.372 (0.371)	
Number of acquaintances		1.032* (0.484)
Number of professors		-0.497 (0.368)
Number of friends		-0.542 <sup>+</sup> (0.321)
Number of family members		-0.102 (0.323)
Class rank	0.275 (0.21)	0.271 (0.210)
Party member	0.731 <sup>+</sup> (0.382)	0.798* (0.381)
Male	1.08** (0.36)	1.149** (0.347)
Urban resident	-0.079 (0.402)	-0.013 (0.388)
Father's education	0.196 (0.261)	0.119 (0.258)
Constant	3.391** (0.680)	3.640** (0.687)
Observations	172	172
R-squared	0.087	0.118

Notes: Unit of analysis is a student. All contact variables refer to the number of contacts a student listed as available for help in her job search. Standard errors in parentheses; \*\* $p < 0.01$ , \* $p < 0.05$ , <sup>+</sup> $p < 0.10$ .

and weak ties (see Table 5). Our results provided no support for SSTH. Specifically, contacts emotionally close to the job seeker were less likely to help than those who were not close (Model 1a). Contrary to H1c, Model 1b indicates that friends are less likely to give help than acquaintances ( $\beta = -0.28$ ,  $p < 0.05$ ).<sup>5</sup> The coefficient for family members is also negative, though not statistically significant. In the model that has controls for both closeness and relationship type, no coefficient was significant. Overall, the results of the within-individual test do not provide support for the SSTH.

Because these within-individual models only include 266 contacts listed by the 172 students, one potential concern was that the sample size was insufficient to accurately estimate within-individual models due to a loss of cases lacking within-individual variation. Specifically, the model can only make an estimate based on those who had variations on the independent variable (i.e., they had at least one close contact and at least one distant contact) and variations on the dependent variable (i.e., they received help from at least one, but not from all, of their contacts). To mitigate a potential concern that this sample size was insufficient for estimating within-individual models, we also replicated our analyses with an expanded sample

Table 5

**SSTH Test Using Within-Individual Methodology: The Effect of Contact's Characteristics on Job Search Help**

	Students with income data			Students with contact data		
	Model 1a	Model 1b	Model 1c	Model 2a	Model 2b	Model 2c
Close contact	-0.162 <sup>+</sup> (0.092)		-0.129 (0.099)	0.024 (0.039)		0.040 (0.039)
Professor	-0.046 (0.112)	-0.021 (0.113)		-0.116* (0.047)	-0.122* (0.047)	
Friend		-0.228* (0.101)	-0.178 (0.108)		-0.126* (0.043)	-0.134* (0.044)
Family member		-0.071 (0.099)	-0.016 (0.107)		-0.087* (0.044)	-0.098* (0.046)
Constant	0.936** (0.081)	0.917** (0.087)	0.984** (0.101)	0.842** (0.034)	0.962** (0.039)	0.936** (0.046)
Obs. (contacts)	266	266	266	1,009	1,009	1,009
Students	172	172	172	599	599	599
R-squared	0.033	0.082	0.099	0.001	0.023	0.025

*Notes:* Unit of analysis is a contact. All contact variables refer to the characteristics of the contact a student listed as available for help. Standard errors in parentheses; \*\* $p < 0.01$ , \* $p < 0.05$ , <sup>+</sup> $p < 0.10$ .

of 599 students who provided information on 1,009 contacts but who did not necessarily find a job (Models 2a, 2b, and 2c). The larger sample provided an additional robustness check on whether our results were simply due to insufficient sample size.

In this expanded sample, we found evidence contrary to SSTH and some support for SSWH. Contrary to H1c, we found that emotionally close contacts were no more likely than distant ones to provide help (Model 2a). Unlike in Model 1a, the coefficient was positive, but it was very close to 0. Consistent with H2c, Model 2b indicates that acquaintances were more likely to provide help than professors, friends, and family members. Specifically, we found that compared to acquaintances, a job seeker was 12 percent *less likely* to receive help from a professor, 13 percent *less likely* from a friend, and 9 percent *less likely* from a family member. Note that these coefficients were also negative in Model 1b, but only *friend* was statistically significant. In Model 2c we included both indicators of tie strength, and the results remained substantively similar. In sum, analyses using an expanded sample confirmed the findings from the analysis of the original sample reported and provided support for the SWTH, not the SSTH.

In sum, our results indicate that the methodology used had substantive effects on our findings; that is, the use of the direct effects methodology might have biased results toward support for the SSTH. Specifically, we found support for the SSTH using the direct effects methodology (H1a), and support for the SWTH using the social capital methodology (H2b), indicating that the direct effects methodology biases resulted toward finding support for the SSTH. We also found support for the SWTH using within-individual methodology.

### *Additional Analyses*

To rule out the possibility that tie strength is a proxy for a contact's status, we replicated all our models with a control for contact status. Job seekers benefit more from high-status contacts (Lin, Vaughn, and Ensel 1981; Lin 1982, 2001; Bian 1994). It is possible that the relationship between tie strength and labor-market outcomes might be spurious because it is likely that strong ties are equal in status to the job seeker, but that some weak ties are of higher status. In the survey, participants indicated whether each contact was a manager or a cadre—a person employed in government or in an administrative position in the state sector. Using this information, for each student, we constructed a dummy variable *high-status tie led to job* (for the direct effects methodology) and a count variable *number of high-status ties* (for the social capital methodology). Also, for the within-individual test, we constructed a dummy variable *high status* for each

contact. We replicated all of our analyses with these controls, and the results of substantive interest remained largely the same.

## Discussion and Implications

Extensive scholarship has elaborated theoretical reasons to expect that the SSTH holds in China, yet there are reasons to reexamine the empirical foundations of these claims. We thus tested the SSTH using both the conventional direct effects methodology and the more methodologically rigorous social capital methodology. The results of the direct effects model using emotional closeness—but not relationship type—provided weak evidence supporting the SSTH. In contrast, the results of the social capital model using relationship type—but not emotional closeness—provided evidence contrary to SSTH. Furthermore, we employed the within-individual test to demonstrate that a job seeker with both a strong tie and a weak tie was more likely to receive help from the weak tie. Taken together, the pattern of results suggested that, in China, the use of the direct effects methodology may overstate the importance of strong ties and understate that of weak ties.

Our study has limitations. First, we cannot explain the differences in results between two dimensions of tie strength. Nevertheless, these results were not surprising because prior research indicated that different dimensions of tie strength might be only loosely correlated (e.g., Marsden and Campbell 1988, 2012). Second, our study did not examine which specific resources either weak or strong ties transmitted in our context. Recent research suggested that strong and weak ties might transmit different types of resources; that is, strong ties are more likely to transmit influence and weak ties—information (Bian, Huang, and Zhang 2015; Tian and Lin 2016). Given our research design, we were not able to investigate why students benefited more from weak ties than strong ones, leaving this question to be investigated by future research.

Also, although studying graduating university students allowed us to collect the detailed data necessary to evaluate both methodologies, we do not claim generalizability. We focused on a segment of the labor market that has few institutional holes. Many students can bypass networks altogether to find desirable jobs through on-campus recruiting (e.g., Obukhova 2012). Our study, then, does not rule out the possibility that in segments in which labor-market institutions are less developed, job seekers might benefit more from strong ties than from weak ones. In fact, a recent study by Lu, Ruan, and Lai (2013) that used the social capital methodology found a positive relationship between the numbers of strong ties a job seeker had and income, even in a city with labor markets as developed as Shanghai. Taken together, both Lu, Ruan, and Lai's 2013 and our results call for

future research that combines nationally representative samples and the use of robust methodologies to explore these issues further.

Our results have important implications for continued research on the SSTH in China and elsewhere. First, our study underscores the need for future research on social networks in China to abandon the use of the direct effects methodology in favor of more robust methods. Corroborating the results of Montgomery's (1992) analytic model, our study provides important empirical evidence that the direct effects methodology can bias results toward finding support for the SSTH. This raises the possibility that existing empirical studies of the SSTH overstate the benefits of strong ties and understate the benefits of weak ones for Chinese job seekers. Because our study raises important methodological doubts about results of prior studies that relied on this methodology, it is critical for future research to reexamine the SSTH in China using more robust methods.

Our study also has important implications for our understanding of the role of culture and institutions in job search in China and elsewhere. First, it raises questions about culturalist explanations for the SSTH in China (e.g., Bian and Ikeda 2014). Consistent with evidence from recent research that suggested that as labor markets develop, the use of strong ties in job search is declining in China (e.g., Huang 2008; Obukhova 2012; Zhao 2013), our results also indicate that, in some contexts, Chinese job seekers do not benefit from strong ties. These results echo other recent research that found benefits of networking strategies in collectivist cultures depend on their organizational context (e.g., Xiao and Tsui 2007; Merluzzi 2013). Taken together, these results suggest that culturalist explanations for the SSTH in China overstate the effect of cultural predispositions and that the "tool kit" (Swidler 1986) of Chinese culture contains a variety of practices that individuals can draw from in response to particular situations (see also Chang 2011).

Furthermore, consistent with institutionalist perspectives on social networks in job search (McDonald, Benton, and Warner 2012; Sharone 2014), our results provide support to institutional explanations of the SSTH in China, and in particular those institutionalist explanations that emphasize the advantages of strong ties in labor markets with institutional holes (e.g., Bian 2002; Zhao 2013). Consistent with this perspective's predictions, we found that in university students' job searches, in which institutional holes were minimal, students did not need to rely on strong ties to find a job. It is also worth noting that the results of interprovincial comparison offer suggestive evidence further supporting this explanation. Specifically, we found some evidence that in the more developed Zhejiang Province, weak ties were more beneficial than strong ones, and the difference between weak and strong ties was less pronounced in the less developed Yunnan Province. In sum, our results highlight the need for future research to focus more attention on institutional factors that shape the use of networks in job search in China and elsewhere.

## Notes

1. In the language of standard job-search models used in economics (e.g., Holzer 1987), the first job seeker has a higher reservation wage, that is, a minimum wage at which he or she accepts a job opportunity versus a second job seeker.

2. We found that students of a lower class rank were more likely to have found a job. This means that we should not use finding a job as an outcome variable because a longer search might indicate difficulties in finding a job or a high confidence in finding a better job after graduating or going to graduate school.

3. It is important to note that our measure of emotional closeness was dichotomous, while most researchers used a measure with four categories.

4. We also attempted to examine models with both measures of tie strength. However, VIF analysis results indicated unacceptably high levels of multicollinearity between our different tie strength measures.

5. We attribute this finding to the fact that most of the students' friends are likely to be other students and, as a result, might be competing for the same jobs.

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### About the Authors

Elena Obukhova is an assistant professor in Strategy and Organization at the Desautels Faculty of Management of McGill University. Her research investigates the causes and consequences of using social networks in labor markets in the U.S.A. and in China. Her other research stream focuses on the emergence of individualism in China. She obtained her PhD. in Sociology from the University of Chicago.

Letian Zhang is a doctoral student in the Department of Sociology, Harvard University. His current research examines how an organization's diversity influences both its allocation of opportunities and its evaluation by stakeholders. He received his BS in mathematics from Stanford University.