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Foreign experience of CEO and corporate social responsibility: Evidence from China

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Foreign experience is a mechanism through which personal cognitions can be shaped into idiosyncratic characteristics. Under the unique institutional background of China, the purpose of this paper is to examine whether CEOs' foreign experience will affect the performance of CSR and whether the influences of CEOs' foreign experience on CSR vary from the categories of foreign experience or from the governance environments. We find that firms with returnee CEOs show better CSR performance. Moreover, the longer the CEO's foreign experience, the better is the CSR performance. Our results are robust to endogeneity concerns, inclusion of additional control, and alternative measures of key variables. Further analyses indicate that foreign working and integrated experiences have important impacts on CSR performance; and the positive effect of foreign experience on CSR is more pronounced for firms located in better legal environment and for those audited by reputable auditor. Our findings highlight foreign experience of CEO as an important driver of CSR performance.

KEYWORDS

 \mbox{CEOs}^\prime foreign experience, corporate social responsibility, cognition, upper echelons theory, brain gain

1 Introduction

Corporate social responsibility (CSR) refers to the managerial responsibility that a firm should take for the welfare of stakeholders in their business operations. The concept of CSR is based on the idea of sustainable development. In addition to financial objectives, corporate business operations must be aligned with social development and environmental concerns (McWilliams and Siegel, 2001; Ali et al., 2022a). As Carroll (1979) states, CSR includes economic, ethical, legal, and communal expectations that society has of organizations. By integrating social and environmental requirements into long-term corporate strategies, firms that engage in CSR activities are preferred in the capital market and under severe industry competition (Ferrell et al., 2016; Liang and Renneboog, 2017; Chen J. et al., 2020). Accordingly, CSR has received considerable attention from scholars and practitioners, especially since the recent global environmental issues, resource scarcity, increased unemployment, and financial scandals (García and Sanz, 2018; Gonçalves et al., 2020).

Our paper builds on two streams of previous literature. The first is research on the determinants of CSR performance. In order to achieve sustainable development, firms have incentives to fulfill their social responsibilities. Prior studies document several factors that affect performance of CSR including external environments (Adnan et al., 2018; Ali et al., 2019; Ucar and Staer, 2020), institutional investors (Dyck et al., 2019; Nofsinger et al., 2019; Chen T. et al., 2020), media attention (Byun and Oh, 2018), ownership structure (Ali et al., 2019; Chen and Cheng, 2020; Chi et al., 2020), board characteristics (Cho et al., 2017;

Muttakin et al., 2018), and managerial characteristics (Hegde and Mishra, 2019; Chen J. et al., 2020; Ali et al., 2022b).

Another stream of research is on the economic consequences of hiring returnee talents. In recent years, economic globalization and convenient transportation have promoted the international flow of talents (Wen et al., 2020). Previous studies indicate that managerial heterogeneity stemming from foreign experience impacts on corporate governance (Giannetti et al., 2015; Iliev and Roth, 2018), corporate performance (Estélyi and Nisar, 2016; Le and Kroll, 2017), and corporate decision-makings, like innovation (Yuan and Wen, 2018), tax avoidance (Wen et al., 2020), CEO compensation (Conyon et al., 2019), and earnings management (Du et al., 2017).

Overall, a large body of previous studies examine both internal governance mechanisms and external institutional factors affecting CSR performance. Meanwhile, prior literature have long been exploring economic consequences of managerial characteristics. Notwithstanding, the impact of managerial foreign experience on CSR is still an issue that needs empirical test. Our study aims to fill the research gap by introducing two essential issues: (1) Does a CEO's foreign experience improve the firm's performance of CSR; (2) Are there heterogeneous influences of a CEO's foreign experience on CSR for different categories of foreign experience or for different governance environments.

The unique institutional background of China provides us the appropriate environment for examination. Compared with developed countries where CEOs have gained foreign experience, China lacks the perfection of institutions and capital markets (Peng and Zhou, 2005), offering a different institutional environment to investigate the impact of CEOs' foreign experience on Chinese corporate behaviors. Meanwhile, China is at the stage of transformation from high-speed development to high-quality development. Talent is a strategic driving force for Chinese economy. However, talent with foreign experience is still scarce in the Chinese labor market despite the economic development and the implementation of brain gain policies (Giannetti et al., 2015; Yuan and Wen, 2018). The supply of talent with foreign experience cannot fully meet the needs of all Chinese enterprises, leading to heterogeneity between regions and companies regarding the recruitment of returnee senior executives.

To test the impact of CEOs' foreign experience on CSR performance, we manually collect data of CEOs' foreign experience from corporate annual reports and related internet websites. The important aspects of CEOs' foreign experience include the duration, category and the host country or region of foreign experience. Further, our paper employs two variables as the proxy for CEOs' foreign experience. One is a dummy variable indicating whether a CEO had foreign experience. The other is a continuous variable measuring the duration of a CEO's foreign experience. As for the performance of CSR, we use RKS's CSR ratings that is widely used in related previous studies. To control for the unobservable firm-specific heterogeneity, firm-fixed effects models are adopted for evaluations. Consistent with our predictions, our study finds that a CEO's foreign experience significantly improves the CSR performance. Moreover, there is a positive and significant relationship between the duration of a CEO's foreign experience and the performance of CSR. We conduct a series of analytical tests to verify the robustness of the results. Additionally,

the positive impact of foreign experience on CSR is mainly derived from foreign working and integrated experiences rather than foreign educational experience. The effect of a CEO's foreign experience on CSR is strengthened by legally protective environments and highquality external auditing.

Our research makes the following contributions to existing literature. First, we supplement the growing literature on the determinants of CSR by presenting the significant effect of CEOs' foreign experience on the performance of CSR. Previous studies demonstrate the role of corporate external and internal factors on facilitating CSR performance. However, little is known about how foreign experience of CEOs drives CSR practices. Our analysis provides the theoretical frameworks and empirical evidence to address the above issue. Second, our results highlight the importance of hiring and retaining senior executives with foreign experience capable of improving the performance of CSR and enabling firms to acquire a better social reputation. Therefore, our paper expands the stream of study on the economic consequence of senior executives' early experiences. Finally, given the increased importance of talent and the development of talent markets, Chinese central and provincial governments recently implemented a series of preferential policies to introduce overseas talent. By exploring the influence of CEOs' foreign experience on corporate social behaviors, our study provides firm-level empirical evidence on the validity of China's brain gain policies.

The remainder of the paper is organized as follows. Section 2 discusses the related theory and develops testable hypotheses. Section 3 describes our research design including the sample selection, data, measures of key variables, and applied regression models. Empirical results are presented in Section 4. To examine the validity of our results, we conduct several robustness tests in Section 5. Further analyses for the heterogeneous effects of foreign experience on CSR are discussed in Section 6. Section 7 presents the conclusion of the paper.

2 Theory and hypotheses

Since Hambrick and Mason (1984) put forward the upper echelons theory, the literature regarding the relationship between senior executives and corporate behaviors has gradually attracted attention. According to the upper echelons theory, it is difficult for senior executives to fully understand all the information related to enterprise decision-making due to the cognitive limitations of senior executives and uncertainties of corporate environments. The existing cognitive structure of senior executives impacts their understanding of relevant information, affecting corporate decision-making. The characteristics of senior executives play an important role in forming their cognitive structure. Existing literature investigates the effects of senior executives' gender (Khaw et al., 2016; Adhikari et al., 2019; Luo et al., 2020), age (Paul and Shrivatava, 2016; Kunze and Menges, 2017; Li et al., 2017; Zhu et al., 2021), family status (Zellweger et al., 2013; Hegde and Mishra, 2019; Vandekerkhof et al., 2019), foreign background (Giannetti et al., 2015; Fu et al., 2017; Yuan and Wen, 2018; Conyon et al., 2019; Wen et al., 2020), educational background (King et al., 2016; Wang and Yin, 2018; Mun et al., 2020), ability

(Mishra, 2014; Jung and Subramanian, 2017; Uygur, 2018), and other characteristics (Custódio and Metzger, 2014; Beneish et al., 2017; Cheung et al., 2017; Sunder et al., 2017) on corporate activities and decision-making.

Given that CSR activities reflect managerial behaviors that improve the welfare of customs, employee, environment, society and other stakeholders, beyond the interests of shareholders or without legal requirements (McWilliams and Siegel, 2001), senior executives have discretions in the engagement of CSR activities. Based on the concept of upper echelons theory, managerial cognitive structure impacts on such discretionary decisions and therefore exerts a crucial influence on the establishment of CSR strategy (Petrenko et al., 2016).

As a comparison of prior literature examining the effects of executive psychological features and personal values, for instance, narcissism (Petrenko et al., 2016; Al-Shammari et al., 2019), hubris (Tang et al., 2015; Tang et al., 2018) and political ideologies (Chin et al., 2013), on CSR practices, we focus on CEOs' foreign experience as a determinant of CSR performance. As the executive leader of corporate top management teams, CEOs' foreign experience molds their unique cognitive structure, affects their identification and judgment of useful information for decision-making. Thus, it plays an important role in corporate performance or strategic choice. Bhagwati and Hamada (1974) propose that well-educated labor force and professionals from developing countries tend to flow to developed countries. Yuan and Wen (2018) believe that CEOs from developing countries are more likely to choose developed countries to complete their foreign experience. In this vein, we posit that a CEO's foreign experience obtained from developed countries can affect the performance of CSR in the following ways.

First, CEOs with foreign experience generally acquire highquality knowledge or skill training, laying a solid professional foundation and accumulating rich management experience for their follow-up domestic work. Compared with local CEOs without foreign experience, returnee CEOs tend to have a stronger ability to identify and process key information, and more skillfully recognize the corporate status and developmental trends. Besides, foreign experience leads CEOs to a confrontation with different systems of value or with different institutions, which furthers CEOs to have a global mindset and therefore to more consider stakeholders. When stakeholders have higher requirements on the performance of CSR, CEOs with foreign experience have a deeper understanding of the demands of stakeholders, thereby promoting CSR performance.

Additionally, with the development of capital markets in developed countries, publicity and education related to CSR have been established, and corresponding legal systems or national strategies have been promulgated. During their stay in developed countries, for work or education, CEOs obtain the cognition on fulfillment of CSR and comprehend its positive consequences on firms. Therefore, foreign experience in developed countries enhances the importance of CSR in a CEO's cognition and makes corporate strategies stakeholder-orientated. Compared with the relatively sound CSR environments in developed countries (Campbell, 2007), Chinese firms generally have low awareness of social responsibility (Yin and Zhang, 2012). Therefore, foreign experience helps CEOs acknowledge the concept of CSR and significantly enhance CSR fulfillment after their return to China.

Meanwhile, while working or studying abroad, CEOs understand the normalization and authority of contracts in foreign markets and the serious litigation risks and reputation-destroying costs incurred by violating contracts or damaging stakeholders' interests. The favorable legal and regulatory environment in developed countries makes CEOs with a foreign experience more cautious and risk-averse (Yuan and Wen, 2018). This trait continues to affect even after CEOs have returned to their homeland. Prior studies indicate that returnee senior executives can implement more effective corporate governance and risk control mechanisms (Giannetti et al., 2015; Yuan and Wen, 2018). Predictably, CEOs with foreign experience are more willing to fulfill CSR activities for the sake of protecting stakeholders' legitimate rights and proactively avoiding risks caused by the lack of CSR engagements.

Finally, compared with the relatively laggard CSR management practices of Chinese enterprises, firms in developed countries have rich experience fulfilling CSR. While working or studying abroad, CEOs familiarize themselves with management practices and understand advanced operation modes of foreign enterprises. Importantly, CEOs would have more opportunity to participate in the fulfilling of CSR in foreign enterprises. Upon their return to China, CEOs can apply relevant experiences to management activities and improve the CSR performance of Chinese enterprises. Therefore, we develop the following baseline hypothesis.

Hypothesis 1: Firms that have CEOs with foreign experience will show greater CSR performance than firms that have CEOs without foreign experience.

To further examine the effect of CEOs' foreign experiences, we investigate how the duration of a CEO's foreign experience affects a firm's CSR performance, to provide additional evidence for the relationship between CEOs' foreign experience and CSR. Based on the upper echelons theory, CEOs' characteristics formed by their past experiences can explain the variances in corporate behaviors. Foreign experience can strengthen CEOs' ability to identify and process key information, recognize the concept of CSR, avoid the risk of lack of CSR, and enrich their experience of CSR engagement. Moreover, the acquisition of foreign experience is a process by which CEOs continuously adapt to different institutional environments and gradually realize that effective institutions have significant governance effects on firms' behaviors. Importantly, the longer the process lasts, the greater the impact of the characteristics shaped by foreign experiences on CEOs' subsequent career and decisionmaking. Therefore, with the increase in CEOs' foreign experience, the influence of foreign institutional environments is gradually more profound, strengthening the positive impact on CSR performance. Accordingly, we propose the following hypothesis.

Hypothesis 2: The longer the CEOs' foreign experience, the better the CSR performance of the Chinese firms they serve.

3 Research design

3.1 Sample selection and data

Our sample companies were chosen from Chinese firms listed on the Shanghai Stock Exchange and Shenzhen Stock Exchange between 2011 and 2014. We end the sample at 2014 because Ministry of Finance of China revised or added a number of accounting standards in 2014,

TABLE 1 Definitions of variables.

Variables	Definitions
Dependent variables	
RKS_CSR	Natural logarithm of a firm's CSR score disclosed by the RKS
RKS_GAD	Firm's CSR grade disclosed by the RKS. Each firm-year is graded from AAA + to C (19 grades in total) based on its <i>RKS_CSR</i> . We assign a valu of 19 (1) to AAA+ (C) grade indicating the highest (lowest) quality of CSR
HEXUN_CSR	Natural logarithm of a firm's CSR score disclosed by the Hexun.com
Independent variables	
CEOFE_D	A dummy variable that takes a value of one if the CEO has foreign working or educational experience, and zero otherwise
CEOFE_L	Natural logarithm of one plus the duration (number of years) of CEOs' foreign experience
Instrument variables	
EDU3	Score of the Chinese universities from which CEOs obtained their bachelor's degree. A score of 3 is assigned to the universities if their percentil
	of the average national entrance exam score of incoming freshmen students is between 90 and 100, a score of 2 is assigned to the universities i their entrance percentile score is between 80 and 90, and a score of 1 is assigned to the universities if their entrance percentile score is below 80. I the company does not disclose the Chinese university the CEO attended, we assign a score of 1 Giannetti et al. (2015)
EDU4	Score of the Chinese university from which the CEO obtained a bachelor's degree. Equals to <i>EDU3</i> , except for cases that we assign a score of 0 is the company does not disclose the Chinese university the CEO attended Giannetti et al. (2015)
AGE	CEO's age is the difference between the current year and the birth year
CEOFE_DIY	Industry-year average of CEOFE_D
CEOFE_LIY	Industry-year average of CEOFE_L
Country-level institutio	nal variables
LAW	Rule of Law index of the country or region where CEOs obtained their foreign experience (Source: Worldwide Governance Indicators from th World Bank)
CORRUPT	Control of Corruption index of the country or region where CEOs obtained their foreign experience (Source: Worldwide Governance Indicator from the World Bank)
REVISED ORIGIN	Revised Anti-director index of the country or region where CEOs obtained their foreign experience (Source: Djankov et al., 2008) A dummy variable equals to one if CEOs obtained their foreign experience from the country or region which belongs to English Law origin, and zero otherwise (Source: Djankov et al., 2008)
Moderating variables	
LEI	Market and legal environment index from Wang et al. (2017)
BIG4	A dummy variable that takes a value of one if the firm-year is audited by one of international Big 4 auditors, including Deloitte, Ernst and Young KPMG, and PricewaterhouseCoopers, and zero otherwise
Control variables	
SIZE	Natural logarithm of the total assets
ROA	Return of assets
MTB	Market-to-book ratio is the sum of the book value of total liabilities and the market value of equity, divided by the book value of total asset
LEV	Firm leverage equals to the ratio of total liability to total assets
OCF	Operating cash flow divided by total assets
PPE	Property, plant, and equipment divided by total assets
BLOCK	Percentage of shares owned by the largest shareholder
RESTRAIN	Percentage of shares owned by the largest shareholder divided by the percentage of shares owned by the second-largest shareholder
BOARD	Natural logarithm of the number of board members
ID	Proportion of independent directors over total board members
DUAL	A dummy variable that takes a value of one if the CEO also serves as chairperson of the board
STATE	A dummy variable that takes a value of one for state-owned enterprises and zero for others
DIRFE	A dummy variable that takes a value of one if at least one director on-board has foreign experience, and zero otherwise

which will affect the comparability of financial reports of listed companies in the following years. The CSR data is obtained from CSR Ratings of Rankins (hereafter denoted as RKS). Based on the resumes of CEOs disclosed in corporate annual reports and Sina finance (finance.sina.com.cn) as a complementary information source, we manually collected data regarding the foreign experience of CEOs, including the duration, category and the country or region of foreign experience. Corporate financial and governance data are separately obtained from the China Stock Market and Accounting Research (CSMAR) and the China Center for Economic Research (CCER) databases. The data on the regional legal environment of the sample firms are taken from the marketization index of Chinese provinces published by Wang et al. (2017). The country-level data of institutional characteristics of CEOs' foreign experience are obtained from Worldwide Governance Indicators compiled by the World Bank and from Djankov et al. (2008).

Financial companies are excluded from our sample due to their unique regulatory environments and different financial statement

Panel A: Descriptive an	alysis					
Variables	N	Mean	S.D.	25% percentile	Median	75% percentile
RKS_CSR	2,165	3.5655	0.2976	3.3711	3.5261	3.7259
CEOFE_D	2,165	0.0374	0.1898	0.0000	0.0000	0.0000
CEOFE_L	81	1.3828	0.4702	1.0986	1.0986	1.6094
SIZE	2,165	22.9166	1.3679	21.9183	22.8271	23.8871
ROA	2,165	0.0421	0.0533	0.0148	0.0367	0.0664
МТВ	2,165	1.8390	1.1165	1.1260	1.4817	2.1175
LEV	2,165	0.5003	0.2072	0.3474	0.5184	0.6625
OCF	2,165	0.0454	0.0699	0.0064	0.0453	0.0874
PPE	2,165	0.2523	0.1868	0.1017	0.2084	0.3785
BLOCK	2,165	39.2943	16.3047	25.5100	39.6200	51.3200
RESTRAIN	2,165	16.6842	32.8824	2.0358	5.2596	17.3808
BOARD	2,165	2.2451	0.2378	2.1972	2.1972	2.3979
ID	2,165	0.3726	0.0751	0.3333	0.3636	0.4167
DUAL	2,165	0.1612	0.3678	0.0000	0.0000	0.0000
STATE	2,165	0.6379	0.4807	0.0000	1.0000	1.0000
Panel B: Mean difference	tests of <i>RKS_C</i>	SR base on CEOF	E_D			
		$E_D = 0$		$CEOFE_D = 1$	Difference	t-stat
Mean of RKS_CSR	3.5952	(N = 2084)	3	.5773 (N = 81)	0.0179	0.4899
Panel C: Mean difference	tests of <i>RKS_C</i>	SR base on CEOF	E_L			
Mean of RKS_CSR		L < its mean (N = 52)		DFE_L ≥ its mean .6483 (N = 29)	Difference -0.1106	<i>t-stat</i> -1.4993*

TABLE 2 Summary statistics.

formats (Vafeas, 2000; Peasnell et al., 2005; Firth et al., 2007). We excluded firms for which necessary data was not available. Noteworthily, not all listed companies are included in RKS's CSR ratings database since social responsibility reports are not compulsorily required by China securities regulatory commission. Finally, 2,165 firm-year observations (involving 674 firms) are adopted. To mitigate the bias from outliers, we winsorized all continuous variables at the 1st and 99th percentiles.

3.2 Variables

3.2.1 Corporate social responsibility

Following previous studies (Lau et al., 2016; Liao et al., 2018; Luo and Liu, 2020; Kong et al., 2021), we adopt RKS's CSR ratings as the proxy for CSR (*RKS_CSR*). RKS is an authoritative third-party rating agency for CSR in China, committed to providing reliable, timeseries and firm-level information regarding CSR ratings for corporate investors, consumers, and the public. RKS's CSR ratings are weighed estimated by four dimensions of CSR quality, including macrocosm (30%), content (45%), technique (15%), and industry (10%). Specifically, macrocosm refers to the strategy on CSR, content focuses on the implementation of CSR, technique represents the information disclosure of CSR and industry involves the industry-specific criteria for rating CSR engagement (Zhang et al., 2018). High value of RKS's CSR ratings (*RKS_CSR*) indicates high quality of CSR. To verify robustness, we use the CSR scores from Hexun.com covering corporate responsibility for shareholders, employees, suppliers/customers/consumers, environments and society, as an alternative proxy for CSR.

3.2.2 CEO's foreign experience

We measure CEOs' foreign experience by whether they have foreign experience (*CEOFE_D*) and by the duration of their foreign experience (*CEOFE_L*). *CEOFE_D* takes a value of one if the CEO of the sample firm was working or studying in countries or regions outside the Chinese mainland, and zero otherwise. *CEOFE_L* equals the natural logarithm of one plus the total year duration of the CEO's foreign experience. Following Giannetti et al. (2015), we do not view it as foreign working experience if the CEO held a position in foreign subsidiaries or agencies of Chinese companies. We consider that the foreign educational experience is the CEOs' studying experience to obtain a master's or doctoral degree in foreign countries or regions.

Countries/Regions	Foreign working experience	Foreign educational experience	Foreign integrated experience	Total
Australia	1			1
Canada	4	1		5
France	3			3
Hong Kong	1			1
Italy		4		4
Japan	3			3
Russia		4		4
Taiwan		8		8
United Kingdom		15		15
United States	8	19	10	37
Total	20	51	10	81

TABLE 3 Distribution of CEO's foreign experience.

3.2.3 Control variables

According to existing literature (Lau et al., 2016; Liao et al., 2018; Hegde and Mishra, 2019; Luo and Liu, 2020; Kong et al., 2021), our study considers the following variables including firm size (*SIZE*), the return of assets (*ROA*), market-to-book ratio (*MTB*), firm leverage (*LEV*), cash holding (*OCF*), property, plant, and equipment (*PPE*), ownership concentration (*BLOCK*), ownership restriction by the second-largest shareholder (*RESTRAIN*), board size (*BOARD*), board independence (*ID*), the duality of CEO and board chairman (*DUAL*), and whether the observation is a state-owned enterprise (*STATE*) to control other factors that affect CSR activities.

3.3 Regression models

We examine the relationship between CEOs' foreign experience and CSR by adopting the following models (1) and (2). To control for the unobservable firm-specific heterogeneity, we include firmfixed effects in the following models.

$$RKS_CSR_{i,t} = \alpha_0 + \alpha_1 CEOFE_D_{i,t} + \sum \alpha_k Control_{k,i,t} + Year + Firm + \varepsilon_{i,t}$$
(1)

 $RKS_CSR_{i,t} = \beta_0 + \beta_1 CEOFE_L_{i,t} + \sum \beta_k Control_{k,i,t} + Year + Firm$ $+ \omega_{i,t}$

(2)

where, subscript *i* and *t* represent firm and year, respectively. *RKS*_ *CSR* is a dependent variable measuring firm-level quality of CSR, *CEOFE_D* and *CEOFE_L* are independent variables indicating whether the CEO has any foreign experience and the duration of the foreign experience, respectively. According to the hypotheses, we predict that the coefficients of *CEOFE_D* and *CEOFE_L* (α_1 and β_1) are positive. *Control* is a set of control variables that are associated with CSR. *Year* and *Firm* are the year and firm fixed effects, respectively. To mitigate heteroscedasticity and cluster problems, we adopt robust standard errors by clustering at the firm-level. Detailed definitions of variables are reported in Table 1.

4 Empirical results

4.1 Summary statistics

Panel A of Table 2 exhibits the results of the descriptive statistics for key variables. During the research period, the mean value of the CSR score (RKS_CSR) of the sample companies increased from 33.8235 to 39.3698 (not reported). Results of the standard deviation of RKS_CSR show that CSR performance is different across firms. Additionally, results indicate that 3.74% of observations employ CEOs with foreign experience (CEOFE_D), suggesting that Chinese listed companies are short of CEO talent with foreign experience. The mean value of foreign experience duration (CEOFE_L) for returnee CEOs is 1.3828. Regarding firm performance, the average ROA (MTB) of sample firms is 4.21% (1.8390). Regarding ownership structure, the average largest shareholder holds 39.2943% of total outstanding shares (BLOCK), which is approximately 16 times the mean percentage ownership of the second-largest shareholders (RESTRAIN). These figures suggest that Chinese ownership structures are highly concentrated, such that the largest shareholder can dominate listed companies. Regarding board governance, the average (median) board has 9.7460 (9.0000) members (not reported). Independent directors account for about one-third of total board members (ID). This figure suggests that Chinese companies adopt the minimum level of independent directors required by the China Securities Regulatory Commission. Of the sample companies, 16.12% hire CEOs who also serve as chairpersons of the board (DUAL). Besides, the government or state agency controls approximately 63.79% of listed companies (STATE).

Panel B and C of Table 2 report the results of univariate analysis. First, we compare the mean of *RKS_CSR* between firms with and without returnee CEOs (*CEOFE_D*) in Panel B of Table 2. The results show that the values in the subsample for those without returnee CEOs are higher than those for the subsample with returnee CEOs, but the difference is insignificant. Furthermore, we present the mean differences on *RKS_CSR* according to the duration of CEOs' foreign experience (*CEOFE_L*) in Panel C of

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
(1) RKS_CSR	1.0000														
(2) CEOFE_D	-0.0120	1.0000													
(3) CEOFE_L	0.0023	0.9455	1.0000												
(4) <i>SIZE</i>	0.3902	0.0504	0.0364	1.0000											
(5) ROA	0.0295	-0.0117	-0.0179	-0.0490	1.0000										
(6) <i>MTB</i>	-0.0885	-0.0145	-0.0088	-0.4838	0.3633	1.0000									
(7) LEV	0.1019	-0.0056	-0.0045	0.5474	-0.4735	-0.4881	1.0000								
(8) OCF	0.1158	0.0443	0.0581	0.0180	0.4196	0.1942	-0.2400	1.0000							
(9) PPE	0.0804	0.0651	0.0758	0.1120	-0.1699	-0.2042	0.0406	0.2977	1.0000						
(10) BLOCK	0.1570	0.0020	0.0239	0.2887	0.0597	-0.0897	0.0556	0.0718	0.0983	1.0000					
(11) RESTRAIN	-0.0214	0.0370	0.0407	0.0766	-0.0868	-0.0794	0.0549	0.0053	0.0757	0.3923	1.0000				
(12) BOARD	0.1487	-0.0451	-0.0451	0.2693	-0.0490	-0.1757	0.1365	0.0383	0.1674	0.0283	0.0327	1.0000			
(13) ID	0.0043	0.0360	0.0489	0.0775	-0.0315	-0.0184	0.0369	-0.0177	-0.0658	0.0593	0.0387	-0.1387	1.0000		
(14) DUAL	-0.0429	0.0195	0.0380	-0.1076	0.0298	0.1373	-0.0845	-0.0135	-0.1127	-0.1304	-0.0718	-0.1386	0.0673	1.0000	
(15) <i>STATE</i>	0.1624	-0.0439	-0.0510	0.3774	-0.1401	-0.2725	0.2556	-0.0131	0.1862	0.2778	0.1522	0.2482	-0.0095	-0.2212	1.0000

Correlation coefficients in bold indicate that they are significantly different from zero at the 5% or 1% level.

Variables	(1) <i>RKS_</i> (CSR	(2) <i>RKS_</i> 0	CSR	
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	
CEOFE_D	0.1070***	2.98			
CEOFE_L			0.0565**	2.06	
SIZE	0.0569***	2.60	0.0572***	2.60	
ROA	-0.0082	-0.08	-0.0067	-0.06	
MTB	-0.0004	-0.07	-0.0006	-0.09	
LEV	-0.0778	-1.15	-0.0775	-1.14	
OCF	-0.0348	-0.45	-0.0346	-0.45	
PPE	0.0308	0.48	0.0302	0.47	
BLOCK	-0.0011	-1.08	-0.0011	-1.07	
RESTRAIN	-0.0001	-0.71	-0.0001	-0.71	
BOARD	0.0066	0.29	0.0065	0.28	
ID	-0.0602	-0.87	-0.0622	-0.90	
DUAL	-0.0053	-0.41	-0.0052	-0.39	
STATE	0.0105	0.44	0.0074	0.30	
Constant	2.2525***	4.60	2.2481***	4.57	
Year effects	YES	·	YES	·	
Firm effects	YES		YES		
Within R ²	0.2867		0.2855		
Overall R ²	0.1720		0.1790		
Ν	2,165		2,165		

TABLE 5 CEO's foreign experience and CSR (Baseline).

Notes: *, **, and *** indicate significance at the 10%, 5%, and 1% level, respectively. Firm- and year-fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

Table 2. By adopting the mean value of $CEOFE_L$ (1.3828, representing 3.5802 years) for returnee CEOs as the cut-off, we find that the mean *RKS_CSR* is significantly higher (at the 10% level) for firms hiring CEOs with longer foreign experience compared to that for firms hiring returnee CEOs with shorter foreign experience.

Table 3 reveals the country or region and category distribution of CEOs' foreign experience. In sum, there are 81 CEOs with foreign experience during the sample period, of which 20, 51, and 10 CEOs have a foreign working, educational and integrated experience, respectively. Therefore, studying abroad is a primary mode for CEOs of Chinese listed companies to obtain foreign experience. Typically, the United States and the United Kingdom are major countries where CEOs gain foreign experience.

4.2 Correlation analysis

Table 4 reports the results of the pairwise correlation matrix among variables used in the baseline regression analyses. We show the correlation coefficients in bold if they are significantly different from zero at the 5% or 1% level. We find that the correlations among most independent variables (except for *CEOFE_D* and *CEOFE_L*) are low, and serious multicollinearity problems are less likely to exist.

4.3 Baseline results

As mentioned, Hypothesis one and two imply a positive relationship between CEOs' foreign experience and performance of CSR. We execute regression analyses of models (1) and (2) using the entire sample to validate the idea. We adopt RKS's CSR ratings (*RKS_CSR*) as the dependent variable, and the important explanatory variables are whether CEOs have foreign experience (*CEOFE_D*) and the duration of CEOs' foreign experience (*CEOFE_L*).

Table 5 presents the regression results. We find that *CEOFE_D* and *CEOFE_L* have positive and significant coefficients in the regressions of *RKS_CSR*. The results are consistent with our hypotheses that CEOs with foreign experience enhance the CSR performance, and that the longer their foreign experience, the more improved the CSR performance. The findings suggest that foreign experience helps CEOs understand the demands of stakeholders and the importance

TABLE 6 CEO's foreign experience and CSR (Instrumental variables).

Variables	(1) CEOF	E_D	(2) RKS	_CSR	(3) CEOFI	E_L	(4) RKS	_CSR
	First-sta	ge	Second	stage	First-sta	ge	Second-	stage
	Coefficient	t-stat	Coefficient	z-stat	Coefficient	t-stat	Coefficient	z-stat
Instruments								
EDU3	0.0837***	7.77			0.1160***	7.27		
AGE	0.0008	0.96			0.0021*	1.68		
CEOFE_DIY	0.8303*	1.86						
CEOFE_LIY					0.7651	1.11		
Instrumented								
CEOFE_D			0.4510***	3.64				
CEOFE_L							0.3223***	3.59
SIZE	0.0043	0.93	0.0871***	12.63	0.0005	0.07	0.0887***	12.82
ROA	-0.0825	-0.96	-0.2116	-1.52	-0.1798	-1.11	-0.1898	-1.32
MTB	-0.0006	-0.15	0.0112*	1.68	-0.0022	-0.39	0.0115*	1.72
LEV	-0.0322	-1.16	-0.1438***	-3.66	-0.0242	-0.51	-0.1502***	-3.79
OCF	0.1008*	1.78	0.1246	1.31	0.2025**	2.34	0.1043	1.08
PPE	0.0941***	3.76	-0.0111	-0.28	0.1593***	3.64	-0.0200	-0.49
BLOCK	-0.0005	-1.43	0.0014***	3.13	-0.0000	-0.05	0.0012***	2.64
RESTRAIN	0.0004**	2.18	-0.0009***	-3.98	0.0005*	1.87	-0.0009***	-3.84
BOARD	-0.0096	-0.55	0.0397	1.34	-0.0075	-0.32	0.0379	1.3
ID	0.0638	1.20	-0.0867	-1.02	0.1364*	1.69	-0.1019	-1.19
DUAL	-0.0153	-1.19	0.0049	0.32	-0.0088	-0.44	0.0000	0
STATE	-0.0196**	-2.33	0.0238	1.61	-0.0371***	-2.69	0.0259*	1.74
Constant	-0.3303***	-3.25	1.3906***	8.18	-0.4524***	-3.07	1.3757***	8.11
Year effects	YES	1	YE	S	YES		YES	5
Industry effects	YES		YE	S	YES		YES	;
Province effects	YES		YE	S	YES		YES	
R2	0.1724		0.22	70	0.1579		0.227	'3
Ν	2,165		2,16	5	2,165		2,16	5
Tests of endogeneity								
Robust score chi2	23.8065	;	<i>p</i> = 0.0	0000	20.3747		<i>p</i> = 0.0	000
Robust regression F	24.0940)	<i>p</i> = 0.0	0000	20.4862		<i>p</i> = 0.0	000
Test of over-identifyin	g restrictions							
Score chi2	0.9218		<i>p</i> = 0.6	5307	1.62033		<i>p</i> = 0.4	448

Notes: *, **, and *** indicate significance at the 10%, 5%, and 1% level, respectively. Year, industry, and province effects are added in each regression model estimation. t- and z-statistics are computed by using firm-clustering standard errors.

of CSR fulfillment, which are beneficial to the improvement of CSR performance of Chinese domestic firms they served. Moreover, as the length of CEOs' foreign experience increases,

influence of foreign institutional environments on CEOs' cognition of CSR engagement becomes profound and it facilitates the improvement of CSR performance.

Variables	(1) <i>RKS_</i> (CSR	(2) <i>RKS_</i> C	CSR	(3) <i>RKS_</i> 0	CSR	(4) <i>RKS_</i>	CSR
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat
LAW	0.0537***	3.16						
CORRUPT			0.0562***	2.83				
REVISED					0.0339***	2.73		
ORIGIN							0.1070***	2.98
SIZE	0.0569***	2.60	0.0570***	2.60	0.0570***	2.60	0.0569***	2.60
ROA	-0.0085	-0.08	-0.0087	-0.08	-0.0078	-0.07	-0.0082	-0.08
MTB	-0.0003	-0.05	-0.0005	-0.07	-0.0007	-0.10	-0.0004	-0.07
LEV	-0.0782	-1.15	-0.0776	-1.14	-0.0768	-1.13	-0.0778	-1.15
OCF	-0.0350	-0.46	-0.0351	-0.46	-0.0346	-0.45	-0.0348	-0.45
PPE	0.0308	0.48	0.0297	0.46	0.0305	0.48	0.0308	0.48
BLOCK	-0.0011	-1.09	-0.0011	-1.09	-0.0011	-1.09	-0.0011	-1.08
RESTRAIN	-0.0001	-0.72	-0.0001	-0.73	-0.0001	-0.71	-0.0001	-0.71
BOARD	0.0066	0.29	0.0068	0.3	0.0067	0.29	0.0066	0.29
ID	-0.0599	-0.87	-0.0601	-0.87	-0.0621	-0.90	-0.0602	-0.87
DUAL	-0.0055	-0.42	-0.0056	-0.42	-0.0052	-0.40	-0.0053	-0.41
STATE	0.0109	0.45	0.0101	0.42	0.0078	0.32	0.0105	0.44
Constant	2.2765***	4.64	2.2726***	4.63	2.2182***	4.51	2.2536***	4.60
Year effects	YES		YES		YES		YES	
Firm effects	YES		YES		YES		YES	
Within R ²	0.2871		0.2870		0.2863		0.2867	
Overall R ²	0.1737		0.1740		0.1706		0.1771	
N	2,165		2,165		2,165		2,165	

TABLE 7 CEO's foreign experience and CSR (Effects of country or region-level institutional factors).

Notes: *, ***, and **** indicate significance at the 10%, 5%, and 1% level, respectively. Firm and year fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

The findings are qualitatively similar with those reported in Zhang et al. (2018) and Bertrand et al. (2021). Compared with Zhang et al. (2018) which focus on the impact of returnee directors, we address the foreign experience of CEOs who exert a directly crucial influence on the CSR activities, and consider the duration of foreign experience of CEOs which is ignored by most prior literature. Differ from Bertrand et al. (2021) adopting a sample of local firms across multiple developed countries, our paper concerns about the issue in China. A single-country setting has relatively small variations in cultural and institutional aspects that are advantageous in avoiding unobserved factors contaminating the result. We also extend the study by confirming that managerial foreign experience indeed matter for CSR performance in emerging market.

Regarding economic importance, the coefficient of *CEOFE_D* is 0.1070, suggesting that CEOs with foreign experience increase the performance of CSR by 10.70%. Considering the mean value of *RKS_CSR* is 3.5655, the effect of CEOs' foreign experience on CSR accounts for 3.00% of the sample mean values of *RKS_CSR*. Besides, the estimated coefficient of *CEOFE_L* is 0.0565, and the standard

deviation of *CEOFE_L* (*RKS_CSR*) for the whole sample is 0.2776 (0.2976). Therefore, one standard deviation increase in *CEOFE_L* enhances the performance of CSR by 0.0527 standard deviations (0.0565×0.2776/0.2976). The results indicate that the explanatory power of CEOs' foreign experience on CSR performance is economically significant.

Like those in prior studies of CSR (Lins et al., 2017; Kao et al., 2018; Chen T. et al., 2020), Table 5 shows the low R-squared (less than 0.4) due to the use of cross-sectional sample. Moreover, since the application of various fixed effects that may mitigate the influence of time-invariant corporate characteristics, the estimated coefficients of most of control variables are insignificant (Kong et al., 2021). We find that only firm size (*SIZE*) holds a positive and significant coefficient, showing that firms with large assets are likely to be associated with the high performance of CSR. This result is consistent with previous studies (Dang et al., 2022) that larger firms have a stronger incentive to engage in CSR to uphold their reputation. Meanwhile, this finding implies that larger firms can afford the cost of engagement of CSR

Variables	(1) <i>RKS_</i> 0	CSR	(2) <i>RKS_</i> 0	CSR	(3) <i>RKS_</i> 0	CSR	(4) <i>RKS_</i>	CSR
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat
CEOFE_D	0.1069***	2.96			0.0549	1.41		
CEOFE_L			0.0564**	2.06			0.0092	0.30
DIRFE	0.0126	0.88	0.0127	0.88	0.0123	0.85	0.0124	0.85
DIRFEX CEOFE_D					0.0520***	3.17		
DIRFEX CEOFE_L							0.0472***	3.16
SIZE	0.0556**	2.55	0.0560**	2.55	0.0558**	2.55	0.0561**	2.56
ROA	-0.0047	-0.04	-0.0032	-0.03	-0.0053	-0.05	-0.0038	-0.03
MTB	-0.0007	-0.10	-0.0008	-0.12	-0.0006	-0.09	-0.0008	-0.12
LEV	-0.0759	-1.12	-0.0755	-1.11	-0.0762	-1.12	-0.0758	-1.11
OCF	-0.0358	-0.47	-0.0357	-0.47	-0.0354	-0.46	-0.0353	-0.46
PPE	0.0292	0.45	0.0286	0.44	0.0294	0.45	0.0287	0.44
BLOCK	-0.0011	-1.09	-0.0011	-1.08	-0.0011	-1.09	-0.0011	-1.08
RESTRAIN	-0.0001	-0.74	-0.0001	-0.73	-0.0001	-0.74	-0.0001	-0.73
BOARD	0.0043	0.19	0.0042	0.18	0.0044	0.19	0.0043	0.18
ID	-0.0583	-0.86	-0.0603	-0.88	-0.0583	-0.86	-0.0603	-0.89
DUAL	-0.0050	-0.38	-0.0048	-0.36	-0.0050	-0.38	-0.0048	-0.36
STATE	0.0121	0.51	0.0090	0.37	0.0120	0.51	0.0089	0.37
Constant	2.2771***	4.66	2.2728***	4.63	2.2747***	4.65	2.2704***	4.62
Year effects	YES		YES		YES	1	YES	
Firm effects	YES		YES		YES		YES	
Within R ²	0.2871		0.2859		0.2872		0.2860	
Overall R ²	0.1751		0.1823		0.1775		0.1842	
Ν	2,165		2,165		2,165		2,165	

TABLE 8 CEO's foreign experience and CSR (Does directors' foreign experience matter).

Notes: *, **, and *** indicate significance at the 10%, 5%, and 1% level, respectively. Firm and year fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

due to their larger resource availability and lesser relative costs (Wickert et al., 2016; Ting, 2021).

Overall, we consider multiply features of CEOs' foreign experience and present single-country evidence which suggests that managerial idiosyncratic characteristics can shape CSR performance.

5 Robustness check

5.1 Endogeneity

Due to the omitted variables or reverse causality, the analysis results could be biased by endogenous problems.

We adopt instrumental variables (IV) regression analyses to mitigate endogeneity arising from unobservable factors that correlate with CEOs' foreign experience. We employ the Chinese university rating where CEOs obtained their bachelor's degree, the age of CEOs, and the average values of CEOFE_D (CEOFE_L) by industry and year as instrumental variables. First, students from highly rate Chinese universities are preferred when they apply abroad. Therefore, the high rating of Chinese universities attended by CEOs in their undergraduate years is a competitive advantage for further studies or working abroad. Following Giannetti et al. (2015), we sort Chinese universities into three (EDU3) or four (EDU4, as robustness) ratings based on the ranking presented in Netbig.com, and predict that EDU3 (or EDU4) is positively related to CEOFE_ D and CEOFE_L. Second, the age of CEOs (AGE) affects their decision to go abroad. People of different ages in China have experienced different economic development or political backgrounds, thereby having different opportunities or preferences for going abroad. Third, following Lennox et al. (2012); Faccio et al. (2016), we use the average foreign experience of CEOs in the same industry and year (CEOFE_ DIY and CEOFE_LIY) as an instrument.

		Panel .	A: Alternative me	asures of de	ependent variable	es		
Variables	(1) HEXUN	_CSR	(2) HEXUN	_CSR	(3) <i>RKS_</i> C	GAD	(4) <i>RKS_</i> 0	GAD
	Coefficient	<i>t-</i> stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -sta
CEOFE_D	0.5830***	3.28			1.1240***	3.33		
CEOFE_L			0.2877**	2.26			0.5842**	2.25
SIZE	0.2550***	3.33	0.2571***	3.35	0.6666***	2.72	0.6705***	2.74
ROA	4.5435***	10.61	4.5504***	10.61	-0.3666	-0.32	-0.3509	-0.3
MTB	-0.0456*	-1.86	-0.0468*	-1.90	0.0438	0.61	0.0419	0.59
LEV	-0.5577**	-2.51	-0.5549**	-2.50	-0.9368	-1.29	-0.9329	-1.28
OCF	-0.5473**	-2.25	-0.5456**	-2.24	-0.1452	-0.20	-0.1437	-0.19
PPE	-0.6270***	-2.71	-0.6304***	-2.72	0.5393	0.75	0.5327	0.74
BLOCK	-0.0020	-0.61	-0.0019	-0.60	-0.0169	-1.52	-0.0169	-1.5
RESTRAIN	0.0015**	2.08	0.0015**	2.08	-0.0003	-0.19	-0.0003	-0.1
BOARD	-0.1046	-1.19	-0.1052	-1.19	0.1765	0.68	0.1754	0.67
ID	0.0518	0.23	0.0402	0.18	-1.1198	-1.47	-1.1417	-1.4
DUAL	0.0370	0.62	0.0388	0.65	0.0231	0.14	0.0252	0.15
STATE	0.0034	0.03	-0.015	-0.13	0.1192	0.43	0.0861	0.30
Constant	-1.2300	-0.71	-1.2542	-0.72	-7.6529	-1.39	-7.7003	-1.3
Year effects	YES		YES		YES		YES	
Firm effects	YES		YES		YES		YES	
Within R ²	0.5560		0.5543	0.5543			0.2398	
Overall R ²	0.3476		0.3537		0.1675		0.1737	
Ν	2,149		2,149		2,165		2,165	

TABLE 9 CEO's foreign experience and CSR (Alternative measures of dependent and independent variables).

Variables	(1) Removing ob that CEO has H or Taiwan exp	ong Kong	that CEO has H	(2) Removing observations that CEO has Hong Kong or Taiwan experience		(3) Viewing CEO's Hong Kong or Taiwan experience as non-foreign experience		O's Hong aiwan on-foreign nce
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat
CEOFE_D	0.0974**	2.50			0.0964**	2.48		
CEOFE_L			0.0502*	1.70			0.0491*	1.65
SIZE	0.0566***	2.58	0.0569***	2.58	0.0572***	2.62	0.0575***	2.62
ROA	-0.0123	-0.11	-0.0108	-0.10	-0.0097	-0.09	-0.0083	-0.08
MTB	-0.0004	-0.06	-0.0005	-0.08	-0.0005	-0.07	-0.0006	-0.09
LEV	-0.0847	-1.24	-0.0846	-1.24	-0.0785	-1.16	-0.0784	-1.16
OCF	-0.0295	-0.38	-0.0294	-0.38	-0.0355	-0.46	-0.0354	-0.46
PPE	0.0411	0.64	0.0409	0.63	0.0312	0.49	0.031	0.48
BLOCK	-0.0011	-1.04	-0.001	-1.03	-0.0011	-1.08	-0.0011	-1.07
RESTRAIN	-0.0001	-0.72	-0.0001	-0.72	-0.0001	-0.70	-0.0001	-0.70
BOARD	0.0068	0.29	0.0067	0.29	0.0070	0.31	0.007	0.30

Variables	(1) Removing ob that CEO has H or Taiwan exp	ong Kong	(2) Removing observations that CEO has Hong Kong or Taiwan experience		(3) Viewing CE Kong or Ta experience as n experien	iiwan on-foreign	(4) Viewing CEO's Hong Kong or Taiwan experience as non-foreign experience	
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat
ID	-0.0563	-0.82	-0.0577	-0.83	-0.0615	-0.89	-0.0629	-0.91
DUAL	-0.0081	-0.61	-0.0083	-0.62	-0.0037	-0.28	-0.004	-0.30
STATE	0.0102	0.42	0.0073	0.30	0.0098	0.41	0.0069	0.28
Constant	2.2568***	4.58	2.2541***	4.56	2.2456***	4.59	2.2428***	4.57
Year effects	YES		YES		YES		YES	
Firm effects	YES		YES		YES		YES	
Within R ²	0.2855		0.2845		0.2859		0.2850	
Overall R ²	0.1733		0.1800		0.1734		0.1801	
N	2,156		2,156		2,165		2,165	

TABLE 9 (Continued) CEO's foreign experience and CSR (Alternative measures of dependent and independent variables).

Notes: *, ***, and **** indicate significance at the 10%, 5%, and 1% level, respectively. Firm and year fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

Table 6 reports the IV regression results. Columns (1) and (3) show the first-stage regression results by regressing CEOs' foreign experience (CEOFE_D or CEOFE_L) on instrumental variables and all control variables. We find that the instrumental variables have consistent coefficients with our predictions. The ratings of universities where CEOs obtained their bachelor's degree (EDU3) is positively and significantly related to the CEOs' foreign experience. It suggests that a highly rated university in the undergraduate period provides CEOs with competitive educational background and increases the possibility of CEOs' going abroad and the duration of foreign experience. The results do not qualitatively change if we adopt EDU4 as an instrumental variable instead of EDU3. Columns (2) and (4) exhibit the secondstage regression results by adopting the performance of CSR (RKS_ CSR) as a dependent variable. We employ instrumented CEOFE_D or CEOFE_L, derived from the first-stage regression as a key independent variable. We find that the coefficients of instrumented CEOFE_D and CEOFE_L are positive and significant at the 1% level. Besides, endogeneity test statistics, including robust score chi2 and robust regression F in the firststage regressions, are significant at the 1% level, suggesting that variables of CEOs' foreign experience (CEOFE_D and CEOFE_L) are endogenous. Score chi2 in the test of over-identifying restrictions is insignificant, indicating that our specification models are well identified. In summary, the results reinforce our main evidence that CEOs' foreign experience improves the performance of CSR even when we mitigate the endogenous problems.

Additionally, the effect of CEOs' foreign experience on CSR could be affected by the issue of reverse causality. That is, firms that perform better in CSR activities are more willing to hire CEOs with foreign experience, or such firms are more attractive for CEOs with foreign experience. To solve this issue, we substitute CEOs' foreign experience with country-level institutional environments. When CEOs study or work abroad, sound institutional environments in

foreign countries or regions increasingly shape their characteristics and values, thus playing a positive role in improving the CSR performance in their subsequent organizations. More importantly, the soundness of country and region-level institutional environments are not affected by the quality of CSR activities. Therefore, in this study, we replace the variables of CEOs' foreign experience with characteristics of institutional environments in the country or region where the CEO obtained foreign experience to control the endogenous problems caused by the reverse causality.

We adopt four country- or region-level indices regarding institutional environments of foreign countries or regions, including the rule of law (LAW), control of corruption (CORRUPT), revised anti-director index (REVISED), and whether the country or region has an English law origin (ORIGIN). The higher the value of indices, the better the institutional environments. Table 7 shows the results. We find that the estimated coefficients of the four country- or region-level variables of institutional environments are significantly positive at the 1% level, indicating that the soundness of institutional environments in the country or region where CEOs acquired their foreign experience can shape their characteristics, regulate their subsequent career behaviors and thereby enhance the performance of CSR. The results also suggest that the effect of CEOs' foreign experience on CSR is still valid even when we consider the endogeneity problem caused by reverse causality.

5.2 Controlling the impact of directors' foreign experience on CSR

Probably, firms with returnee CEOs simultaneously appoint board of directors with foreign experience as corporate elites and dutiful supervisors (Rivas, 2012). According to Giannetti et al. (2015), directors of company boards with foreign experience facilitate the

	-	-	gn working, educatio	nal, or integrate	d experience		
Variables	(1) <i>RKS_</i> C	<u>C</u> SR	(2) <i>RKS_</i> (CSR	(3) <i>RKS_</i> C	:SR	
	Working exp	erience	Educational ex	perience	Integrated experience		
	Coefficient	<i>t</i> -stat	Coefficient <i>t</i> -stat		Coefficient	<i>t</i> -stat	
CEOFE_D	0.1206***	3.36	0.0875	1.34	0.1706***	7.87	
SIZE	0.0617***	2.85	0.0592***	2.71	0.0575***	2.65	
ROA	-0.0539	-0.50	-0.0329	-0.31	-0.0278	-0.26	
MTB	0.0012	0.17	0.0001	0.02	0.0012	0.17	
LEV	-0.1037	-1.54	-0.0864	-1.28	-0.0889	-1.29	
OCF	-0.0203	-0.26	-0.0351	-0.45	-0.0275	-0.35	
PPE	0.0386	0.59	0.0373	0.58	0.0328	0.50	
BLOCK	-0.0013	-1.38	-0.0011	-1.10	-0.0014	-1.44	
RESTRAIN	-0.0001	-0.71	-0.0001	-0.79	-0.0001	-0.60	
BOARD	-0.0072	-0.32	0.0041	0.18	-0.0113	-0.51	
ID	-0.0282	-0.40	-0.0509	-0.73	-0.0265	-0.38	
DUAL	-0.0037	-0.27	-0.0036	-0.26	-0.0031	-0.23	
STATE	0.0121	0.50	0.0146	0.58	0.0156	0.61	
Constant	2.1848***	4.50	2.2037***	4.50	2.2834***	4.69	
Year effects	YES		YES		YES		
Firm effects	YES		YES		YES		
Within R ²	0.2812		0.2838		0.2803		
Overall R ²	0.1858		0.1798		0.1876		
Ν	2,104		2,135		2094		

TABLE 10 CEO's foreign experience and CSR (Different categories of foreign experience).

Panel B: The duration of a CEO's foreign working, educational, or integrated experience

Variables	(1) <i>RKS_CSR</i>		(2) <i>RKS_</i> 0	CSR	(3) <i>RKS_CSR</i>		
	Working experience		Educational ex	perience	Integrated experience		
	Coefficient	t-stat Coefficient		<i>t</i> -stat	Coefficient	<i>t</i> -stat	
CEOFE_L	0.0439*	1.65	0.0692	1.17	0.1044***	6.15	
SIZE	0.2468***	12.11	0.0593***	2.71	0.0577***	2.66	
ROA	-0.6187***	-5.62	-0.0329	-0.31	-0.0289	-0.27	
MTB	0.0208***	3.30	0.0001	0.01	0.0012	0.18	
LEV	-0.2724***	-3.61	-0.0858	-1.27	-0.0893	-1.30	
OCF	0.1052	1.27	-0.0347	-0.45	-0.0275	-0.35	
PPE	0.1111	1.52	0.0367	0.57	0.033	0.51	
BLOCK	-0.0027**	-2.25	-0.0011	-1.10	-0.0014	-1.44	
RESTRAIN	0.0001	0.25	-0.0001	-0.79	-0.0001	-0.64	
BOARD	0.0175	0.73	0.004	0.18	-0.0114	-0.51	
ID	0.0029	0.04	-0.0519	-0.75	-0.026	-0.37	

Variables	(1) <i>RKS_CSR</i> Working experience		(2) <i>RKS</i> _C	CSR	(3) RKS_CSR		
			Educational ex	perience	Integrated experience		
	Coefficient	Coefficient <i>t</i> -stat Coefficient <i>t</i> -stat		Coefficient	<i>t</i> -stat		
DUAL	0.0036	0.23	-0.0033	-0.24	-0.003	-0.22	
STATE	0.0144 0.55		0.0142 0.56		0.0157	0.61	
Constant	-1.9429*** -4.19		2.2034***	4.50	2.2788***	4.68	
Year effects	YES		YES	·	YES		
Firm effects	YES		YES		YES		
Within R ²	0.1778		0.2836		0.2805		
Overall R ²	0.1672		0.1808		0.1872		
N	2,104		2,135		2094		

TABLE 10 (Continued) CEO's foreign experience and CSR (Different categories of foreign experience).

Notes: *, **, and *** indicate significance at the 10%, 5%, and 1% level, respectively. Firm and year fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

adoption of advanced corporate governance practices and effectively perform monitoring functions. Therefore, they improve firm performance. To mitigate the concern that the directors' foreign experience could drive the relationship between CEOs' foreign experience and CSR, we include an additional control variable indicating the foreign experience of the board of directors (DIRFE) in models (1) and (2). Table 8 presents the regression results by considering the foreign experience of directors. Columns (1) and (2) include DIRFE as a control variable, and columns (3) and (4) include DIRFE and its interaction term with CEOFE_D or CEOFE_L. We find that coefficients of CEOs' foreign experience variables (CEOFE_D and CEOFE_L), in columns (1) and (2), are positive and significant at 5% or better. However, the coefficient of the directors' foreign experience variable (DIRFE) is insignificant. Columns (3) and (4) show that interaction terms of DIRFE and CEOFE_D (CEOFE_L) are statistically positive and significant. The results suggest that the impact of CEOs with foreign experience on CSR is still consistent with our hypothesis when considering directors with foreign experience. We do not find evidence that directors' foreign experience improves the performance of CSR. However, the positive relationship between a CEO's foreign experience and CSR is more pronounced in firms with directors with foreign experience.

5.3 Alternative measures of dependent and independent variables

We address robustness by adopting different measures of CSR and CEOs' foreign experience.

First, RKS discloses grades of CSR in addition to the score of CSR. Each firm-year is graded from AAA + to C (19 grades in total) based on its *RKS_CSR*. We assign a value of 19 (1) to AAA+ (C) grade indicating the highest (lowest) quality of CSR (*RKS_GAD*). Second, Hexun.com provides an evaluation of CSR performance for listed companies from five dimensions, including the responsibility of shareholders, employees, suppliers/customs/consumers, environment, and society. By assigning a different weight for each dimension, Hexun.com provides an aggregate CSR score (*HEXUN_CSR*) for Chinese listed companies. Panel A of Table 9 reports regression results by using *RKS_GAD* and *HEXUN_CSR* as an alternative dependent variable. We find consistent results that CEO's foreign experience (*CEOFE_D* and *CEOFE_L*) is positively and significantly related to alternative proxies for CSR performance (*RKS_GAD* or *HEXUN_CSR*).

Additionally, Panel B of Table 9 exhibits the results by re-considering the definition of CEOs' foreign experience. Hong Kong Special Administrative Region and Taiwan have an economic, cultural, and political close relationship with Chinese mainland. In columns (1) and (2), we remove observations where CEOs have Hong Kong or Taiwan experience, whereas, in columns (3) and (4), we view CEOs' Hong Kong or Taiwan experience as non-foreign experience. Results show robust evidence that CEOs' foreign experience (*CEOFE_D* and *CEOFE_L*) enhances CSR performance (*RKS_CSR*).

6 Further analyses

6.1 Effects of different categories of CEO's foreign experience

We investigate the heterogeneous influence of different categories of CEOs' foreign experience on CSR, dividing their foreign experience into foreign working, educational and integrated experience. Panels A and B of Table 10 report regression results by using *CEOFE_D* and *CEOFE_L*, respectively. Column (1) focuses on the effect of CEOs' foreign working experience on CSR. Column (2) examines the effect of CEOs' foreign educational experience on CSR. Column (3) tests the effect of CEOs' foreign integrated experience on CSR. Thus, in each columns the remaining two parameters are not included, respectively.

Results in Panel A of Table 10 show that coefficients of $CEOFE_D$ in columns (1) and (3) are positive and significant, whereas the coefficient of $CEOFE_D$ in column (2) is insignificant. The results suggest that, compared to CEOs' foreign educational experience, their foreign working and integrated experiences enhance CSR performance significantly. In Panel B of Table 10, we find the same qualitative

			Panel A: Effects o	of the intera	ction terms				
Variables	(1) <i>RKS_CSR</i>		(2) <i>RKS</i>	(2) RKS_CSR		(3) RKS_CSR		(4) RKS_CSR	
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	
CEOFE_D	-0.0293	-0.37			0.0967**	2.49			
CEOFE_L			-0.0652	-1.07			0.0444	1.52	
LEI	-0.0047	-1.09	-0.0050	-1.14					
CEOFE_D×LEI	0.0170*	1.80							
CEOFE_L×LEI			0.0142**	2.26					
BIG4					-0.0120	-0.32	-0.0118	-0.31	
CEOFE_D× BIG4					0.0899**	2.20			
CEOFE_LX BIG4							0.0775**	2.52	
SIZE	0.0572***	2.61	0.0577***	2.62	0.0562**	2.54	0.0566**	2.55	
ROA	-0.0087	-0.08	-0.0085	-0.08	-0.0067	-0.06	-0.0058	-0.05	
MTB	-0.0002	-0.03	-0.0003	-0.05	-0.0007	-0.10	-0.0009	-0.13	
LEV	-0.0831	-1.22	-0.0846	-1.24	-0.0775	-1.14	-0.0769	-1.13	
OCF	-0.0335	-0.44	-0.0330	-0.43	-0.0351	-0.46	-0.0345	-0.45	
PPE	0.0363	0.57	0.0356	0.55	0.0310	0.48	0.0306	0.48	
BLOCK	-0.0011	-1.11	-0.0011	-1.09	-0.0011	-1.09	-0.0011	-1.08	
RESTRAIN	-0.0001	-0.77	-0.0001	-0.85	-0.0001	-0.71	-0.0001	-0.72	
BOARD	0.0026	0.11	0.0026	0.11	0.0063	0.27	0.0061	0.27	
ID	-0.0528	-0.77	-0.0534	-0.78	-0.0593	-0.86	-0.0609	-0.88	
DUAL	-0.0053	-0.40	-0.0059	-0.44	-0.0061	-0.46	-0.0060	-0.45	
STATE	0.0054	0.21	0.0022	0.08	0.0098	0.40	0.0065	0.26	
Constant	2.2880***	4.68	2.2821***	4.64	2.2709***	4.57	2.2645***	4.54	
Year effects	YE	3	YE	S	YES		YES		
Firm effects	YE	3	YE	S	YES		YES		
Within R ²	0.28	98	0.28	89	0.2869		0.2859		
Overall R ²	0.152	29	0.15	0.1598		0.1629		0.1721	
Ν	2,16	5	2,165		2,165		2,165		
Panel B: Moderatii	ng effect of the LEI								
Variables	(1) <i>RKS_C</i>	SR	(2) <i>RKS</i> _(CSR	(3) <i>RKS</i> _(CSR	(4) <i>RKS</i> _0	CSR	
	Low LEI		High <i>LEl</i>		Low <i>LEI</i>		High <i>LEI</i>		
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	
CEOFE_D	0.0674*	1.67	0.1661***	2.99					
CEOFE_L					0.0285	1.06	0.1034**	2.50	
SIZE	0.0412	1.59	0.0650	1.55	0.0413	1.60	0.0651	1.55	
ROA	0.0801	0.58	0.0508	0.24	0.0804	0.59	0.0661	0.30	
MTB	0.0012	0.13	-0.0020	-0.26	0.0009	0.09	-0.0021	-0.28	

TABLE 11 CEO's foreign experience and CSR (Moderating effects of provincial legal environment and auditing quality).

Variables	(1) <i>RKS</i> _(CSR	(2) <i>RKS_</i> 0	CSR	(3) <i>RKS</i> _(CSR	(4) RKS_CSR		
	Low L	E/	High <i>LEI</i>		Low L	Low <i>LEI</i>		High <i>LEI</i>	
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t-</i> stat	Coefficient	<i>t</i> -stat	
LEV	-0.0122	-0.14	-0.2073*	-1.70	-0.0118	-0.13	-0.2047*	-1.68	
OCF	-0.0665	-0.59	0.0027	0.02	-0.0653	-0.58	-0.0006	0.00	
PPE	0.0030	0.04	0.1397	1.25	0.0043	0.05	0.1281	1.13	
BLOCK	-0.0010	-0.87	-0.0011	-0.49	-0.0010	-0.88	-0.0010	-0.48	
RESTRAIN	-0.0002	-0.63	-0.0001	-0.35	-0.0002	-0.60	-0.0001	-0.40	
BOARD	-0.0279	-0.86	0.0514	1.55	-0.0290	-0.89	0.0531	1.59	
ID	-0.0201	-0.26	-0.1468	-1.22	-0.0217	-0.29	-0.1494	-1.24	
DUAL	0.0006	0.03	-0.0103	-0.57	0.0019	0.10	-0.0137	-0.73	
STATE	-0.0074	-0.20	0.0688***	3.68	-0.0114	-0.30	0.0695***	3.72	
Constant	2.5993***	4.49	2.0481**	2.19	2.6025***	4.49	2.0436**	2.18	
Year effects	YES		YES		YES		YES		
Firm effects	YES		YES		YES		YES		
Within R ²	0.3037		0.2994		0.3030		0.2978		
Overall R ²	0.1004		0.2063		0.1026		0.2154		
Ν	1,206		959		1,206		959		
Panel C: Moderat	ing effect of the Bl	G4							
Variables	(1) <i>RKS_</i> (CSR	(2) <i>RKS_</i> (CSR	(3) <i>RKS_</i> (CSR	(4) <i>RKS_</i> 0	CSR	
	BIG4 =	0	BIG4 = 1		BIG4 = 0		BIG4 = 1		
	Coefficient	<i>t</i> -stat	Coefficient	<i>t</i> -stat	Coefficient	<i>t-</i> stat	Coefficient	<i>t</i> -stat	
CEOFE_D	0.1002***	2.58	0.1465***	3.44					
CEOFE_L					0.0466	1.59	0.0940***	3.61	
SIZE	0.0548**	2.36	0.1297	1.58	0.0551**	2.36	0.1308	1.6	
ROA	0.0348	0.3	-0.3779	-0.84	0.0374	0.32	-0.3840	-0.85	
MTB	-0.0003	-0.04	-0.0109	-0.6	-0.0006	-0.07	-0.0109	-0.6	
LEV	-0.0460	-0.62	-0.2789	-1.21	-0.0446	-0.6	-0.2804	-1.21	
OCF	-0.0502	-0.62	0.3160	1.37	-0.0496	-0.61	0.3194	1.38	
PPE	0.0211	0.31	-0.0998	-0.45	0.0204	0.3	-0.0995	-0.45	
BLOCK	-0.0018*	-1.79	0.0063	1.49	-0.0017*	-1.78	0.0063	1.5	
RESTRAIN	-0.0001	-0.53	0.0004	0.82	-0.0001	-0.5	0.0003	0.64	
BOARD	-0.0001	0	-0.0430	-0.67	-0.0002	-0.01	-0.0435	-0.68	
ID	0.0047	0.08	-0.5221**	-2.07	0.0019	0.03	-0.5194**	-2.06	
DUAL	-0.0117	-0.82	0.0327	0.9	-0.0115	-0.8	0.0322	0.88	
STATE	0.0164	0.62	-0.0791	-1.49	0.0125	0.46	-0.0789	-1.49	
Constant	2.2707***	4.39	0.8096	0.42	2.2673***	4.36	0.7873	0.41	
Year effects	YES		YES		YES		YES		
Firm effects	YES		YES		YES		YES		

TABLE 11 (Continued) CEO's foreign experience and CSR (Moderating effects of provincial legal environment and auditing quality).

Variables	(1) RKS_CSR		(2) RKS_CSR		(3) RKS_CSR		(4) RKS_CSR	
	BIG4 =	0	BIG4 = 1		BIG4 = 0		BIG4 = 1	
	Coefficient	t-stat	Coefficient	<i>t</i> -stat	Coefficient	t-stat	Coefficient	<i>t</i> -stat
Within R ²	0.2954		0.3032		0.2939		0.3036	
Overall R ²	0.1232		0.0802		0.1283		0.0881	
N	1819		346		1819		346	

TABLE 11 (Continued) CEO's foreign experience and CSR (Moderating effects of provincial legal environment and auditing quality).

Notes: *, **, and *** indicate significance at the 10%, 5%, and 1% level, respectively. Firm and year fixed effects are added in each regression model estimation. t-statistics are computed by using firm-clustering standard errors.

results by adopting CEOFE_L as an independent variable. The results suggest that the governance effect of CEOs' foreign experience on performance of CSR mainly is derived from CEOs' foreign working or integrated experience, rather than foreign educational experience. Sound institutional environments, like legal protection, governance mechanism, or market supervision in foreign countries or regions where CEOs obtained their foreign experience improve CEOs' ethical concept and management philosophy in their career. It is more likely that CEOs care about the firm's long-term development and enhance the performance of CSR if they were sent to foreign countries or regions with better institutional characteristics. Therefore, compared to CEOs' foreign educational experience, their foreign working experience impacts CSR more profoundly and directly (Conyon et al., 2019). Besides, CEOs' foreign educational experience affects CSR performance only when CEOs have foreign working experience simultaneously (also called as foreign integrated experience).

6.2 Effects of the provincial legal environment and audit quality

We further analyze CEOs' foreign experience and CSR by considering several external governance factors. First, to examine the effect of the provincial legal environment on the relationship between CEOs' foreign experience and CSR, we include the legal environment index (LEI), indicating the quality of institutional regulations in the province where the sample firm is located. Besides, as a mechanism of corporate governance, external auditing monitors and advises firm operations. Therefore, auditing quality potentially affects the effect of CEOs' foreign experience on the performance of CSR. We adopt a dummy variable that equals one if the observation hires a Big 4 (including Ernst Deloitte, and Young, KPMG. and PricewaterhouseCoopers) auditor, and zero otherwise (BIG4).

We report, in Panel A of Table 11, the regression results by including the interaction terms between CEOs' foreign experience and *LEI* or *BIG4* and their coefficients are positive and significant at the 10% level or better. It suggests that CEOs' foreign experience plays a governance role on CSR performance in firms with good external governance mechanisms. Specifically, the effect of CEOs' foreign experience on CSR is more pronounced for firms located in provinces with sound legal environments or for those audited by a Big four auditor. As a robustness check, we split our sample into two sub-samples according to the median value of *LEI* in Panel B of Table 11

and the value of *BIG4* in Panel C of Table 11, respectively. Coefficients of CEOs' foreign experience are positive and significant in sub-samples with a high-quality provincial legal environment or external auditing. Notably, the magnitudes of coefficients of CEOs' foreign experience in firms with high-quality legal environment and external auditing are even larger than those in firms with low-quality legal and auditing governance. Taken together, the evidence indicates that CEOs' foreign experience external governance. High-quality provincial legal environment and external auditing external governance. High-quality provincial legal environment and external auditing provide a sound governance setting under which CEOs' foreign experience effectively enhances the performance of CSR.

7 Conclusion

Our paper investigates the impact of CEOs' foreign experience on the performance of CSR by using recent data of Chinese listed companies. The recent Chinese institutional environment offers an appropriate research setting to consider the effect of foreign background of senior executives on corporate behaviors. We manually collect comprehensive data of CEOs' foreign experience in Chinese listed firms from 2011 to 2014. Results show that firms hiring CEOs with foreign experience have significantly increased CSR performance. Additionally, the longer the CEO's foreign experience, the better the firm's CSR performance. The results are consistent with our hypotheses that foreign experience enhances CEOs' capacity to recognize critical information, provides CEOs with increased cognition of CSR, and improves the performance of CSR. The results are robust to endogenous tests, additional control for directors' foreign experience, and alternative measures of key variables. Furthermore, we differentiate the categories of foreign experiences. Compared to CEOs' foreign educational experience, CEOs' foreign working and integrated experience are significantly associated with better CSR performance. Evidence of heterogeneity tests shows that the positive impact of CEOs' foreign experience on CSR performance is more pronounced for firms in provinces with better legal environments and for those audited by a Big four auditor.

Our study contributes to the literature that CEOs' foreign experience is significantly associated with better performance of CSR and offers a new research perspective of the economic consequences of CEOs' foreign experience. The results have several implications for Chinese listed companies and their stakeholders. Specifically, our research demonstrates the positive relationship between CEOs' foreign experience and CSR performance. This finding is beneficial to firms that are keen on hunting returnee talents and supports the implementation of China's brain gain policies. Meanwhile, we find that CEOs' foreign working experience improves CSR performance implying that foreign working experience is a vital criterion for corporate recruitment of returnees compared to foreign educational experience. For results of heterogeneity, they inspire stakeholders to concern about the compatibility between internal governance mechanisms (employing returnee CEOs) and external governance factors (legal environment and auditing quality).

Data availability statement

Publicly available datasets were analyzed in this study. This data can be found here: https://cn.gtadata.com/.

Author contributions

YZ: Conceptualization, Data curation; Methodology; Writing original draft. LD: Reviewing and editing the paper; Funding acquisition. All authors have given approval to the final version of the manuscript.

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Conflict of interest

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