

Economic Research-Ekonomska Istraživanja



ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/rero20

Female presence in corporate governance, firm performance, and the moderating role of family ownership

Ali Amin, Rizwan Ali, Ramiz ur Rehman, Muhammad Akram Naseem & Muhammad Ishfaq Ahmad

To cite this article: Ali Amin, Rizwan Ali, Ramiz ur Rehman, Muhammad Akram Naseem & Muhammad Ishfaq Ahmad (2022) Female presence in corporate governance, firm performance, and the moderating role of family ownership, Economic Research-Ekonomska Istraživanja, 35:1, 929-948, DOI: 10.1080/1331677X.2021.1952086

To link to this article: https://doi.org/10.1080/1331677X.2021.1952086

9	© 2022 The Author(s). Published by Informa UK Limited, trading as Taylor & Francis Group.	Published online: 22 Jul 2021.
	Submit your article to this journal 🗹	Article views: 6394
Q ^L	View related articles 🗹	Uiew Crossmark data ☑
2	Citing articles: 9 View citing articles 🗹	







Female presence in corporate governance, firm performance, and the moderating role of family ownership

Ali Amin^a, Rizwan Ali^a **(i)**, Ramiz ur Rehman^{a,b}, Muhammad Akram Naseem^a and Muhammad Ishfaq Ahmad^a

^aLahore Business School, The University of Lahore, Lahore, Pakistan; ^bSchool of Management, Xi'an Polytechnic University, Xi'an, China

ABSTRACT

Assessing the role of diversity in corporate governance has attracted growing interest. In addition, significant relationships are expected between diversity dimensions and firm performance. This research aims to analyze the relationships between female presence in corporate board-firm financial performance and the extent to which such influence is moderated by family ownership. The study's sample, based on the listed firms on the Pakistan Stock Exchange (PSX), represents the nonfinancial sector from 2008 to 2019 with 2087 firm-year observations. Fixed-effect regression analysis was applied to examine the proposed hypothesis. The study's findings indicate that the presence of women in corporate governance is positively associated with firm financial performance. Simultaneously, the mentioned relationship is less pronounced when family ownership is a moderator. The empirical findings of the study support the argument that the presence of women in corporate boards is positively associated with financial performance and supports the reforms made by codes of corporate governance (CCG) that make the presence of female directors' mandatory on the corporate boards. Additionally, the study findings partially confirm that a higher proportion of women on the board increases firm performance. This study offers insights for policymakers to implement legislation for a diverse gender placement in the board of directors and exploit the potential benefits of the gender-balanced board, which generally improves firm performance.

ARTICLE HISTORY

Received 21 July 2020 Accepted 29 June 2021

KEYWORDS

Corporate governance; board diversity; firm performance; family ownership

JEL CODES

G32: G34: L25

1. Introduction

The composition of the corporate board has gained significant importance in corporate governance, and a large amount of interest focuses on the composition of corporate boards and its various attributes as qualities of corporate governance. One of the

board qualities that has attracted enormous interest is the diversity of the board of directors. For instance, the boardroom female representation significantly increased from 16.9% to 25% in Fortune 100 firms (Deloitte, 2019). The growing trend over the years toward diversity in the boardroom has led to a certain question: Why do companies strive to diversify the boardroom representation? Extant literature may have several answers to this question, such as the corporate board being the most important firm's internal entity for controlling and monitoring management to deter them from opportunistic (or unethical) behavior (Fama & Jensen, 1983; Hermalin & Weisbach, 2001). The recent corporate scandals, such as that involving Lehman Brothers, have led to closer scrutiny of boards of directors' composition and decisions (Terjesen et al., 2016). Despite the growing interest of academicians and practitioners exploring the mentioned relationship in their research and practices, less attention has been given in discussing the presence and control of family ownership in the firm's structure.

Governance is an essential managerial attribute for firms (Yeh & Trejos, 2015) and is directly associated with control and monitoring (Blanco et al., 2009). The efficiency and functioning of corporate governance can be affected by the corporate board, diversity (gender) on board, and its subcommittees (Nielsen & Huse, 2010), which are the most relevant issues currently faced by the stakeholders, shareholders, and managers of the firms (Pucheta-Martínez et al., 2016). The empirical evidence reflects that woman may lead differently than men (Kirsch, 2018). For instance, women are known to be more collaborative, enhance participative decision-making, and be more ethically responsible (Bart & McQueen, 2013), and this could reduce board conflicts (Nielsen & Huse, 2010). Moreover, they are known to be more security-oriented, (Martín-Ugedo et al., 2018), more concerned but less power-oriented (Adams & Funk, 2012), more independently, responsible, and diligent in supervising and controlling the firm's audit function (Li & Li, 2020), ensuring the financial statements' quality (Compernolle, 2018). These practices make firms less associated with fraudulent practices (Gao et al., 2017). From an investor's viewpoint, the presence of female directors and their board independence is one of the factors of a firm's future performance. Investors react positively to the inclusion of female directors on board and believe they will gain positive returns as a result (Adams et al., 2015). These attributes of female directors promote the quality of board discussions; therefore, the National Association of Corporate Directors Blue Ribbon Commission in the US has recommended placement of female directors on the board (Carter et al., 2003).

Diversity of the corporate board, female presence on the corporate board, and female participation in corporate subcommittees are widely reported in developed markets and has found a positive association with few exceptions. However, empirically, these findings are less reported in emerging markets, which need to discuss and explore the importance of female presence in firms' corporate governance structure to reduce agency conflicts. Therefore, this study's aims to examine the role of female directors' presence in corporate governance in the shape of diversity (gender) on board and its subcommittees, namely, audit committees (ACs) in emerging markets. Therefore, we investigate the relationship between female directors on boards and female directors' presence in the audit committees with the firm's financial

performance in Pakistan settings. Additionally, this study extends the existing literature on the mentioned relationship by examining the moderating role of family ownership, which confirms that family ownership hampers the firm performance (Faccio & Lang, 2002). Despite the other international regulatory bodies to ensure the female presence in the governance structure, the Security and Exchange Commission of Pakistan (SECP) formulated the Code of Corporate Governance (CCG) regulations in 2002 and revised in 2012, 2017, and, recently, in 2019. The revised CCG under the companies Act 2017 introduced the mandatory provision of the placement of at least one female director on board all public interest companies. As a result, the proportion of female directors in listed firms, which are a subset of public interest firms, is expected to rise from 6.4% to 14.3%. This study offers empirical evidence of the relationship between the female presence in corporate governance (CG) and firm performance in nonfinancial sector firms listed on the Pakistan Stock Exchange. To test the proposed hypothesis, we employed a panel regression (fixed effect) analysis on sampled firms from 2008 to 2019, consisting 2087 firm-year observations. The presence of a female in CG is measured as: a) female presence in the corporate board, which reflects the gender diversity on board, and b) female presence in the audit committee, which is part of the corporate subcommittees board consistent with studies by Adhikari et al. (2019) and Bennouri et al. (2018). Firms' financial performance is measured based on accounting measures of return on assets, basic earnings power ratio, and market measures, namely Tobin's Q and market to book ratio of equity (Papangkorn et al., 2019). Further, this study extends the literature on governance and firm performance by examining family ownership's moderating effect (FO). The moderating effect of family ownership is measured by the percentage of total shares owned by family members (Ghaleb et al., 2020).

The contributions of the study are as follows: first, the study findings confirm and extend the current research on the mentioned relationship in the emerging economies that the female presence in the corporate board, a higher proportion of women on board, and their presence in the audit committee positively (significant) affect the firm performance, which validates the critical mass viewpoint and the implementation of CCG. Second, this study empirically adds novel insights into the research on the nexus of women on board and financial performance by examining the moderating role of family-ownership and in line with the argument that the family-owned firm's structure hampers the firm's returns and affects the holdings of minority shareholders. Third, this research supports the reforms introduced by the code of corporate governance within the framework of SECP, which advises the placement of female directors' mandatory on the corporate board. The formulation of a gender-diverse board has improved firm decision-making and, eventually, financial performance. Thus, our findings confirm the positive impact of female presence on boards in the nonfinancial sector of Pakistan through the moderating role of family ownership, which is an oversight of earlier studies.

The remainder of this paper is organized as follows. Section 2 reviews the literature on female presence on board and in an audit committee with a firm's financial performance, leading to hypothesis development. Section 3 explains the dataset and the empirical model. Section 4 describes the empirical findings, and Section 5 concludes the study's implications, limitations, and suggestions.

2. Literature review and hypothesis development

Globally, firms are redesigning the corporate board of directors' structure to enhance diversity and construct a more heterogeneous group of decision-makers (Kumar & Zattoni, 2016). The increasing trend of diverse boards tends to serve better firm performance (Farrell & Hersch, 2005). Diversity in the decision process explains the likelihood of finding women in firms' top leadership (Cook & Glass, 2014). Different authors argue that greater gender diversity should improve directors' monitoring and advising roles, and the quality of boards' decisions (e.g. Hillman, 2015). Other studies (Carter et al., 2010; Rose, 2007) found no relationship between gender diversity and financial performance. Furthermore, Triana et al. (2014) reported that when a board faces no threat of low firm performance, gender diversity contributes positively to strategic change. Few international cross-country evidences support a positive relationship between a higher proportion of female directors on board for effect on firm financial performance and firm value (Gordini & Rancati, 2017; Terjesen et al., 2016; Vafaei et al., 2015). Bajra and Čadež (2019) reported the relationship between internal audit quality-earnings management and board of directors-earnings management, respectively, in a unique setting of European firms cross-listed in the United States. Results revealed that both internal audit quality and board directors negatively affect the incidence of earnings management, while their interactive impact is positive.

The literature found that the relationship between corporate board gender diversity and financial performance is often reported in developed economies; employed a sample of large public firms (Wagana & Nzulwa, 2016), and few studies measure this relationship in emerging economies (Kılıç & Kuzey, 2016; Liu et al., 2014). Another view discussed in the literature by (Bianco et al., 2015), which examined the difference between family-affiliated and non-family-affiliated female directors, concluded that the family-affiliated women are more common in smaller firms with concentrated ownership. Conversely, non-affiliated women are more likely to serve in listed and bigger firms that have a greater fraction of independent directors. The above discussion and diverse empirical evidence between the association of diverse corporate boards and firms' financial performance are not conclusive. Therefore, this study examines two attributes of a corporate board: female presence (proportion) on board and female presence in the audit committee in Pakistan settings as an emerging economy. There are several theoretical frameworks to develop the hypothesis, while we theorize considering both agency theory and critical mass view.

2.1. Female presence on board and firm performance

The separation of control and ownership in firms leads to agency problems (Fama & Jensen, 1983; Jensen & Meckling, 1976). Corporate boards overcome conflicts and protect shareholders' interests (Weisbach, 1988) by aligning the interests of managers and shareholders (Bennouri et al., 2018). Diversity on board by gender delivers new perspectives and valuable advice to top managers (Anderson et al., 2011), resulting in a better decision related to resolving problems (Daily et al., 2003) and improves firm performance (García-Meca et al., 2015). Several arguments contest the potential benefits of female directorship (Terjesen et al., 2016), while few believe that female

presence on board is more valuable when balanced with their counterparts (Li et al., 2017). Vafaei et al. (2015) find positive associations between a higher proportion of female directors with better financial performance in the developed market (Australian) list firms. Gordini and Rancati (2017) found that a higher proportion of women on boards increased the firm market value (Tobin's Q). Contrarily, some studies highlight no significant difference among them in board monitoring effectiveness, for instance; (Fan et al., 2019). Bajra and Čadež (2020) examined the effects of regulatory policies on European firms' corporate governance quality cross-listed in the United States. They revealed that the compliance levels increase over time, but they vary considerably across constituent provisions. Additionally, higher compliance is positively related to corporate governance quality. Consequently, to advance the understanding of the impact of female presence on a firm's financial performance, considering their presence and their (number) proportion is essential. The above arguments underpin the following hypothesis:

Hypothesis 1: The proportion of female directors' presence on board is positively related to financial performance.

2.2. Female presence in audit committee and firm performance

Globally, financial scandals are enforced to lawmakers and regulatory bodies to ensure the audit committee's presence in true spirits and its transparency in listed firms. Primarily, the audit committee is entrusted with the task of overseeing the financial reporting quality (Chan & Li, 2008) to ensure the transparency of financial statements and prevent financial irregularities through an effective system and controls (Pucheta-Martínez et al., 2016) and hold regular meetings with internal management and statutory auditors to review financial statements (Klein, 2002). The literature suggests that the attributes of an audit committee can affect the audit committee's effectiveness. These attributes include size, independence, meetings, and diversity (gender) (Nekhili et al., 2020). Bajra and Čadež (2018) examined the increasing trend of corporate governance quality considering the European company law directive that announced a mandatory audit committee in listed firms along with their roles and responsibilities. They conclude that audit committee monitoring effectiveness and competence are positively associated with financial reporting quality. Gender-diverse committees can facilitate effective communication among auditors and management because of their superior communication and better monitoring skills, which are more effective than their counterparts (Adams & Ferreira, 2009). Female presence encourages information sharing among the committee (Gul et al., 2011) and prevents audit report issues (Tian & Peterson, 2016). Based on the above discussion, this study states that the gender diversity in the audit committee increases its effectiveness, promotes openness and the sharing of information among committee members, overcomes social identity problems, increases involvement in decisionmaking leading to better decisions, and demonstrates better performance in comparison with a board that is not diverse. Therefore, we hypothesize the following:

Hypothesis 2: The presence of female directors in the audit committee is positively related to financial performance.

2.3. Moderating effect of family ownership

The contingency factors among the female presence and firm performance may prevail. In this connection, the role of family ownership has been explored in earlier studies, which highlighted that family-ownership might hamper the independent decision of directors', resultantly less effectiveness of the board (Mustakallio et al., 2002; Ararat et al., 2015). Extensive shareholder monitoring reduces the need for outside monitoring, making the board less independent (Monem, 2013). Nadeem (2020) also highlighted that a woman's presence on the board adversely affects board decisions or firm performance in family businesses. In family businesses, the maintenance of socioeconomic wealth supersedes all the financial advantages obtained by women's participation in corporate positions in a non-family business (Gomez-Mejia et al., 2011). Similarly, Morck and Yeung (2009) mentioned that audit committees face resistance from directors in family-controlled businesses, which results in negative firm performance. Thus, the interaction of family ownership negatively impacts the cash-performance relationship, which confirms that a high level of family ownership disrupts the firm performance as family shareholders tend to accumulate excess cash to increase resources under their control (Yun et al., 2020). Considering the contingency theory of leadership, leadership styles and how women in corporate positions make decisions differ between family and non-family businesses. The gains or losses in preserving the family's socioemotional wealth constitute the fundamental frame of reference for women making strategic and political decisions in the family but not a non-family business (Moreno-Gómez & Calleja-Blanco, 2018). Therefore, we argue that although board diversity is considered a mechanism to enhance corporate governance effectiveness, in the family-controlled business, female directors' role is limited and more diverted toward the family owners. Furthermore, nominated female directors are from within families. Consequently, family control adversely moderates the linkage between female directors and performance. Similarly, their presence in the audit committee is also symbolic and hence negatively moderated by family ownership. Consequently, we hypothesize the following:

Hypothesis 3a: The relationship between female directors' presence on board and financial performance is weaker in firms with family ownership.

Hypothesis 3b: The relationship between female directors' presence in the audit committee and financial performance is weaker in firms with family ownership.

3. Material and methods

3.1. Data and sample description

This study employed the nonfinancial firms listed on the Pakistan Stock Exchange (PSX) (see Table 1, panel B). The relevant data were gathered from the firms' annual reports. Annual reports are key to in an organization's image to its stakeholders (Gray et al., 1995). The selected data collection period (2008–2019) covers the code of corporate governance reforms. The initial sample consists of 5952 firm-year observations. After excluding financial firms' adherence due to their different settings and removing missing values, the final sample comprises 2087 panel settings. Table 1

Table 1. Sample description.

Panel A: Selection procedure		
Initial observations of all listed firms of the study period Less: Financial firm observations Less: Number of firm-year missing observations Final sample		5952 1344 2521 2087
Panel B: Industry-wise Composition	Number	Percentage
Automobile assembler	125	5.99
Automobile parts & Accessories	67	3.21
Cable & Electrical goods	57	2.73
Cement	184	8.82
Chemical	208	9.97
Engineering	100	4.79
Fertilizer	64	3.07
Food & Personal care products	173	8.29
Glass & Ceramics	36	1.72
Leather & Tanneries	20	0.96
Miscellaneous	98	4.70
Oil & Gas exploration companies	44	2.11
Oil & Gas marketing companies	80	3.83
Paper & Board	67	3.21
Pharmaceuticals	95	4.55
Power Generation & Distribution	116	5.56
Real Estate investment trust	4	0.19
Refinery	48	2.30
Sugar & Allied industries	147	7.04
Synthetic & Rayon	32	1.53
Technology & Communication	114	5.46
Textile Composite	91	4.36
Textile Spinning	28	1.34
Textile Weaving	8	0.38
Tobacco	23	1.10
Transport	41	1.96
Vanaspati & Allied industries	10	0.48
Woollen	7	0.34
Total	2087	100
Year-wise composition	Number	Percentage
2008	117	5.61
2009	162	7.76
2010	157	7.52
2011	166	7.95
2012	177	8.48
2013	180	8.62
2014	180	8.62
2015	184	8.82
2016	200	9.58
2017	209	10.01
2018	207	9.92
2019	148	7.09
Total	2087	100

Source: Author's calculation.

presents a summary of data curation, and sample selection includes industry and year-wise composition.

3.2. Measures

Performance measures refer to the essential measurement of a firm's efficiency and effectiveness (Neely et al., 1995) in managing its resources (Al-Matari et al., 2014). The higher performance measures are, the more effectively and efficiently the firms' resources have been utilized to achieve their objectives includes; profit maximization, reduce business costs, and maximizing shareholders' wealth (Ibrahim and Samad, 2011). Therefore, this study employs the performance measures of a firm (return on assets and earning power ratio) to validate the study findings. The dependent variables used to measure firm performance are return on assets (ROA) (Brahma et al., 2020); basic earning power ratio (BEPR), which reflects the expected future firm performance based on past or current period performance, and firm profitability (Papangkorn et al., 2019).

Following the literature (Bennouri et al., 2018; Yang et al., 2019), the proxies for an explanatory variable, the proportion of female directors on board (PFD_BD), measured as the number of female directors on board by total board size, and the presence of female directors in the audit committee (PFD_AC), measured as the number of female directors in the audit committee by total members in the audit committee. βi is the coefficient of female presence variables, where i = 1. Family ownership (FO) is measured by a percentage of total shares owned by family members and considered as dummy variable "1" if family owned at least 20% shares, "0" if otherwise (Ghaleb et al., 2020; Zhou, 2019). Furthermore, PFD_BD*FO indicates the interaction of family ownership with the presence (proportion) of a female director on the board and audit committee PFD_AC*FO as moderator. Simultaneously, βm and βn are the coefficients of family ownership and their interaction effect, respectively.

Following the extant literature (Deb & Siddique, 2017; García-Meca et al., 2015; La Rocca & Cambrea, 2019; Nguyen et al., 2015; Sardo & Serrasqueiro, 2018; Sila et al., 2016), this study divides the control variables into two categories. The first categories of control variables pertain to board characteristics, which include board size (BS) and the proportion of independent directors (PID_BD). The second category of control variables pertains to firm-specific characteristics, which include firm size (FS), leverage (LEV), investment (Inv), and firms' fixed assets (FA). βj is the coefficient of the control variables, where $j=1,\ldots,6$. Year and industry dummy variables are also added to the model to study the year and industry effect where, $k=1,2,3\ldots 27$ and βy is the coefficient of year, where $y=1,2,3\ldots 11$ (Table 2).

Table 2. Variable description and measurement.

Nature	Variable	Symbol	Measure
Dependent variable	Return on assets	ROA	Net income/Total assets
	Basic earning power ratio	BEPR	EBIT/Total assets
Independent variable	Proportion of female director on board	PFD_BD	Number of female directors on board /Total board size
	Presence of female director in audit committee	PFD_AC	Number of female directors in audit committee/Total members in audit committee
Moderator	Family ownership	FO	Family owners having 20% or more equity ownership in the firm
Controls	Board size	BS	Total number of directors on board
	Proportion of independent directors on board	PID_BD	Independent director on board divided/Total directors on board
	Firm size	FS	Log of total assets
	Leverage	Lev	Total debt/Total assets
	Investment	Inv	Investment
	Fixed asset	FA	Fixed assets of the firm

Source: Author's calculation.

3.3. Empirical model

This study examines the direct effect of female presence on board-firm financial performance and female presence in the audit committee-firm financial performance, and the moderating effect of family ownership on the mentioned relationship is estimated through a fixed-effect regression analysis. The estimates of ordinary least squares can be misleading. Thus, a fixed-effect model is applied to control unobserved factors (Yun et al., 2020). The choice of fixed-effect regression analysis is based on the Hausman test. To measure the moderation effects, the model has an interaction variable. The firm-specific control variables in both models include the year and industry dummies to account for time and industry trends.

In accordance with the hypothesis, we proposed following model:

$$ROAi = a1 + \beta_{i}PFD_{BD}i + \beta_{m}FO + \beta_{n}PFD_{BD}*FO_{i} + \sum_{j=1}^{6} \beta_{j}Controls_{j}$$

$$+ \sum_{k=1}^{27} \beta_{k}Industrydumies_{k} + \sum_{l=1}^{11} \beta_{y}Yeardummies \quad (1)$$

$$BEPRi = a1 + \beta_{i}PFD_{BD}i + \beta_{m}FO + \beta_{n}PFD_{BD}*FO_{i} + \sum_{j=1}^{6} \beta_{j}Controls_{j}$$

$$+ \sum_{k=1}^{27} \beta_{k}Industrydumies_{k} + \sum_{l=1}^{11} \beta_{y}Yeardummies \quad (2)$$

$$ROAi = a1 + \beta_{i}PFD_{AC}i + \beta_{m}FO + \beta_{n}PFD_{AC}*FO_{i} + \sum_{j=1}^{6} \beta_{j}Controls_{j}$$

$$+ \sum_{k=1}^{27} \beta_{k}Industrydumies_{k} + \sum_{l=1}^{11} \beta_{y}Yeardummies (3)$$

$$BEPRi = a1 + \beta_{i}PFD_{AC}i + \beta_{m}FO + \beta_{n}PFD_{AC}*FO_{i} + \sum_{j=1}^{6} \beta_{j}Controls_{j}$$

$$+ \sum_{k=1}^{27} \beta_{k}Industrydumies_{k} + \sum_{l=1}^{11} \beta_{j}Yeardummies \quad (4)$$

4. Results and discussion

4.1. Descriptive statistics

Table 3a presents the descriptive results of the study. Table 3a shows that the firms having up to three female directors on the board, whereas only few firms do not have

Table 3a. Descriptive statistics.

Variable	N	Mean	Median	SD	Min	Max
ROA	2087	6.125	5.600	1.147	-2.510	6.140
BEPR	2087	0.112	0.101	0.121	-0.217	0.507
PFD_BD	2087	0.082	0.000	0.099	0.000	3.000
PFD_AC	2087	0.090	0.000	0.161	0.000	1.000
FO	2087	0.468	0.000	0.499	0.000	1.000
BS	2087	8.008	8.000	1.297	7.000	13.000
PID_BD	2087	0.115	0.000	0.147	0.000	1.000
FS	2087	22.856	22.832	1.538	19.032	26.556
LEV	2087	0.527	0.518	0.292	0.024	1.884
INV	2087	15.481	19.119	8.633	0.000	24.745
FA	2087	21.556	21.700	2.305	0.000	25.515

Source: Author's calculation.

Table 3b. Descriptive statistics – proportion of female directors on board (PFD_BD).

			PFD_B	D ≤1					1 < PFD_	_BD ≤ 3	}	
Variables	Obs	Mean	Median	SD	Min	Max	Obs	Mean	Median	SD	Min	Max
ROA	1822	5.68	5.38	10.28	-2.41	6.56	265	6.28	6.84	8.57	-1.63	7.14
BEPR	1822	0.10	0.09	0.12	-0.21	0.50	265	0.14	0.11	0.11	-0.07	0.50
PFD_BD	1822	0.05	0.00	0.06	0.00	1.00	265	0.27	0.25	0.07	0.00	3.00
PFD_AC	1822	0.06	0.00	0.12	0.00	1.00	265	0.28	0.33	0.22	0.00	1.00
FO	1822	0.48	0.00	0.50	0.00	1.00	265	0.38	0.00	0.48	0.00	1.00
BS	1822	7.82	8.00	1.12	7.00	13.00	265	9.24	9.00	1.68	7.00	13.00
PID_BD	1822	0.11	0.00	0.14	0.00	1.00	265	0.14	0.00	0.15	0.00	1.00
FS	1822	22.7	22.70	1.54	19.03	26.55	265	23.3	23.58	1.42	20.0	26.55
LEV	1822	0.53	0.52	0.30	0.02	1.88	265	0.49	0.50	0.23	0.02	0.98
INV	1822	15.42	19.05	8.52	0.00	24.74	265	15.8	20.70	9.35	0.00	24.74
FA	1822	21.50	21.57	2.29	0.00	25.51	265	21.9	22.19	2.35	0.00	25.51

Source: Author's calculation.

any women on their boards. This shortcoming violates the CCG and may cause insufficient diverse opinions in the boardroom conversation. The presence of female directors in the audit committee varies between 0 and 1. While no law compels the inclusion female directors in the audit committee, companies have still included female directors to the committee to improve audit quality, transpiercing, conflict mitigation. The board size ranges between 7 and 13, with a median of 8. The return on an asset is between -2.510 and 6.140, which shows loss-making firms that may recover in the coming years. The average BEPR is -0.217 and 0.507, along with a standard deviation of 0.121.

Considering CCG regulations, the minimum number of female directors on board (one) reflects the diversity (gender) and eventually improves its financial performance. However, the extent of a female director's presence prevailed in the literature, and it is noted in the developed markets that a higher proportion of female presence on corporate boards more positively affects financial performance. For this instance, we classify our study sample descriptively into the following: a) firms that have less than one female on board and b) firms that have more than one while less than three women on board to strengthen the study hypothesis. Table 3b presents the descriptive results of the split-sample, which confirms the critical mass viewpoint. Firms that have more than one female on board, but less than equal to three have better average measures than their counterparts (Gul et al., 2011; Papangkorn et al., 2019).

4.2. Correlation matrix

Table 4 presents the correlation matrix among the relevant variables. Table 4 depicts various degrees of correlation among different variables. The results show that the presence of a female directors on board and audit committee is positively associated with firms' performance measures, with few exceptions of control variables. This indicates that firms with a gender-balanced board present higher financial performance. Conversely, the mentioned relationship is negatively correlated with family ownership, confirming the argument that family ownership and performance nexus may affect minority shareholders (Gedajlovic et al., 2012).

4.3. Empirical results

Table 5 reports the regression results of the proposed hypothesis H1, which states that PFD BD positively affects firm performance. The coefficients are positive and statistically significant at the 1% significance level with the performance measures. The results are in line and support the argument that presence of female directors on the board increases firm performance, which states that better monitoring skills of female directors lead to better performance (Papangkorn et al., 2019; Rose, 2007). Further, Table 5 presents the findings of H3a, the moderation effect of family ownership. The coefficient of the interaction term (PFD BD*FO) is negative and significant, indicating that family ownership adversely affects the relationship between the presence of women on board and firm financial performance. These results depict that family businesses override corporate governance practices that weaken gender diversity on boards (Ararat et al., 2015). The effects of the control variables are in line with the literature, with few exceptions, as expected. The findings reveal that the return on assets and before earning power ratio is positively associated with the independent director, which shows a negative association with board size. The positive association of independence on board and performance measures confirms that independent directors mitigate the conflicts between shareholders and top management, which is expected to be more likely to represent shareholder interest and adopt positions in favor of shareholders. Board size shows an insignificant negative association with performance measures, which confirms the importance of an appropriate and optimal board size in the firms, which leads to better performance. The firm's specific control variables are consistent in magnitude and statically partially significant in both models, which leaves us confident that the model is well-specified (Bennouri et al., 2018; Pucheta-Martínez et al., 2016; Terjesen et al., 2016).

Table 6 reports the regression results of the proposed hypothesis H2, which states that PFD_AC positively affects firm performance. The coefficients are positive in both cases. The results support that the presence of female directors in the audit committee sends a positive signal to shareholders, positively impacts audit quality, and has a negative impact on errors, noncompliances, or the omission of information (Pucheta-Martínez et al., 2016). Additionally, Table 6 reports the findings of H3b, the moderation effect of family ownership. The coefficient of the interaction term (PFD_AC*FO) is negative, which indicates that family ownership adversely affects the relationship between female presence in the audit committee and firm financial

Table 4. Correlation matrix.

1 2 2 2 2 2	מסוב ווי בסוובומנוסוו ווומנוואי	.w.									
Variables	ROA	BEPR	PFD_BD	PFD_AC	FO	BS	PID_BD	FS	LEV	INV	FA
ROA	_										
BEPR	0.520***	_									
PFD_BD	0.236***	0.228	_								
PFD_AC	0.052*	0.048*	0.410***	_							
9	-0.13***	-0.14***	-0.123***	-0.013	_						
BS	0.023	0.019	0.125	0.258	$^{**}690.0-$	_					
PID_BD	0.038	0.04	0.277	0.078	-0.023	0.144	_				
FS	***680.0	0.084**	0.135	-0.006	-0.23***	-0.072**	0.035	-			
LEV	-0.24***	-0.40***	-0.139***	-0.055*	0.055*	-0.001	-0.004	0.114***	-		
N	0.151***	0.124***	0.101	0.028	-0.08***	-0.012	0.031	0.311***	-0.17***	-	
FA	0.026	0.031	0.042	-0.024	-0.18***	-0.028	0.043	0.603	0.201	0.052*	-

Note: *, ***, and **** indicate significance at the 10%, 5%, and 1% levels, respectively. Source: Author's calculation.

Table 5. Regression results: presence of female director on board and firm performance.

Independent	RO	Α	BEI	PR
Variable	Coefficients	Std. Errors	Coefficients	Std. Errors
PFD_BD	16.461***	3.267	0.181***	0.040
FO	-0.105	0.831	-0.010	0.011
PFD_BD*FO	-15.468**	4.989	-0.168***	0.061
Board-Level Controls				
BS	-0.189	0.226	-0.004	0.003
PID_BD	1.778	2.033	0.024	0.025
Firm-Level Controls				
FS	0.357	0.268	0.012**	0.003
LEV	-16.157***	0.896	-0.151***	0.011
INV	0.035	0.025	0.010*	0.001
FA	0.254**	0.103	0.020*	0.002
Constant	10.967**	5.747	0.194***	0.071
Year Effect	Yes		Yes	
Industry Effect	Yes		Yes	
Firm-Year Observation	2087		2087	
Adjusted R ²	0.32		0.12	
F- Statistics	30.10***		19.63***	
Hausman Chi ²	12.01***		23.06***	

Note: *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively.

Source: Author's calculation.

Table 6. Regression results: presence of female director in audit committee and firm performance.

Independent	RO	Α	BEI	PR
Variable	Coefficients	Std. Errors	Coefficients	Std. Errors
PFD_AC	0.416	2.703	0.012	0.033
FO	-1.197	0.832	-0.021**	0.010
PFD_AC*FO	-1.623	3.390	-0.023	0.041
Board-Level Controls				
BS	-0.035	0.240	-0.001	0.003
PID_BD	0.077	2.006	0.050	0.025
Firm-Level Controls				
FS	0.383	0.272	0.004**	0.003
LEV	-16.484***	0.906	-0.152***	0.011
INV	0.006*	0.001	0.001*	0.002
FA	0.254**	0.104	0.030**	0.001
Constant	1.045*	5.867	0.236***	0.070
Year Effect	Yes		Yes	
Industry Effect	Yes		Yes	
Firm-Year Observation	2087		2087	
Adjusted R ²	0.29		0.19	
F- Statistics	28.24***		18.26***	
Hausman Chi ²	21.30***		24.29***	

Note: *, **, and *** indicate significance at the 10%, 5%, and 1% levels, respectively. Source: Author's calculation.

performance. A female director in the audit committee in a family business is symbolic and, hence, negatively moderated (Morck & Yeung, 2009). The findings reveal that the return on assets and before earning power ratio is positively associated with the independent director, which shows a negative association with board size. The positive association of independence on board and performance measures confirms that independent directors mitigate conflicts between shareholders and top management and are expected to represent shareholder interest and adopt positions in favor of shareholders. Board size shows an insignificant negative association with performance measures, confirming the importance of an appropriate and optimal board size

Table 7. Regression results: female presence on board and firm performance.

	PFD_BD ≤1				1 < PFD_BD ≤ 3			
	RC)A	ВЕ	PR	R	OA	ВЕ	PR
Variables	Coeff.	Std. Errors	Coeff.	Std. Errors	Coeff.	Std. Errors	Coeff.	Std. Errors
FD_BD	3.093***	0.62	0.029***	0.01	2.255*	3.43	0.426**	0.19
FO	-0.381	0.88	-0.011	0.01	-4.792	2.60	-0.152	0.10
FD_BD*FO	-2.026	1.10	-0.158*	0.10	-5.047	5.11	-0.776**	0.33
Controls	Yes		Yes		Yes		Yes	
Constant	Yes		Yes		Yes		Yes	
Year Effect	Yes		Yes		Yes		Yes	
Industry Effect	Yes		Yes		Yes		Yes	
Firm-Year Observations	1822		1822		265		265	
Adjusted R ²	0.34		0.11		0.13		0.10	
F-Statistics	35.07***		27.21***		5.74***		4.97***	
Hausman Chi ²	18.51***		22.35***		15.91***		15.24***	

Note: The sample firms are divided into two subgroups, firms with female presence (a female director) less than or equal to and above 1. Probability values are based on t-statistics for a two tailed test of significance. All control variables are included in the models; however, regression coefficients are not shown in the table to save space. *, **, *** indicate significance at the 10%, 5%, and 1% level, respectively.

Source: Author's calculation.

in the firms, leading to better performance. The firm's specific control variables are consistent in magnitude and statically partially significant in both models, which leaves us confident that the model is well-specified (Bennouri et al., 2018; Pucheta-Martínez & Bel-Oms, 2015; Terjesen et al., 2016).

4.4. Additional analysis

To make the primary findings of the study robust, the sample was split into two subgroups based on the presence of women on board. Table 7 shows the split sample's regression results of the female presence on board ≤ 1 and $1 < PFD_BD \leq 3$. The split sample results confirm that a higher proportion of women on board has higher positive impact on firm financial performance. Moreover, the interaction term's coefficient also demonstrates that the nexus of female presence and firm financial performance is weakened in family-owned firms. However, a higher proportion of women on board can facilitate communication and reduce the adverse impact of family-owned concentration and, hence, improve performance. The split sample results also confirm the critical mass viewpoint that a higher proportion of diversity (gender) on board can be significant. However, access to diversity could also cause negative or diminishing returns. The study results offer gender-balanced board practices in an emerging economy and summarize that if the women hold a critical mass on the board, their opinion will be resolutely considered. Conversely, the presence of a small number of women reflects "symbolism." Our results are partially consistent with recent empirical evidence (Yang et al., 2019) that a higher number of female directors on board matters.

5. Conclusion

Corporate governance literature focuses on how female presence on a corporate board and corporate committees affect firm performance. However, empirical evidence is mixed. Therefore, this study examines the relationship between a female presence in corporate governance and firm performance in an emerging economy "Pakistan" using a sample of nonfinancial firms in the Pakistan Stock Exchange over the period 2008-2019. Further, this study examined the moderating effect of family ownership on the relationship between female presence in corporate governance and firm performance. Female presence in corporate governance is measured as the proportion of women on board and the presence of a female in the audit committee. The results of the fixed-effect regression estimations provide new insights on the nexus, which confirms that a higher proportion of female presence in corporate governance is positively associated, controlling the factors known to affect performance. The study findings are consistent with a large stream of the literature on board diversity studies that reported the positive impact of female presence on performance (Arun et al., 2015; Kim & Starks, 2016; Ozdemir, 2020; Sabatier, 2015).

Given this outcome, the study argues that a higher proportion of women on board and corporate committees, such as the audit committee, impose superior monitoring and encourage management to pursue value-and performance-increasing strategies, which are in the shareholders' best interests. Our findings confirm the agency theory explanations (Fama & Jensen, 1983), which suggest that owners and managers have conflicting interests aligned via proper monitoring and enhanced performance. The presence of female directors in our sample firms also supports the reforms made by CCG 2017, which announced that female directors' placement was mandatory on the board. Our results are consistent and partially significant with recent empirical evidence (Yang et al., 2019) that a higher number of female directors on board matters. Further, our results support the study by Morck and Yeung (2009), which argued that the avoidance of internal controls results in low effectiveness of board and audit committee characteristics in a family business.

Practically, our results have important practical implications for managers, investors, legislators, and regulators. Although most of the previous studies were conducted in developed markets and the positive association between a female presence in corporate governance to firm performance, few literature has reported the relationship in emerging markets more precisely, in the context of the moderating role of family ownership. Pakistan is a developing country and has faced various challenges in the recent past. To protect investor trust, attract foreign institutional investments, ensure market efficiency, better monitoring, and transparency, firms appoint women in the corporate board to attain gender-balanced board benefits. The study provides implications for policymakers and regulators to focus on increased CCG practices in true spirit. While this study presented meaningful findings, certain limitations remained. The study only focuses on the gender diversity of corporate boards and audit committees. Other aspects of board diversity, such as the qualifications of directors and ethnic and cultural diversity, need to be investigated. The culture and experience of board members are also significant attributes that might influence firm performance. Future studies may focus on the individual-level board attributes, which affect firm decision and, hence, performance.

Acknowledgments

The authors are grateful to the anonymous referees who provided valuable comments and suggestions to significantly improve the quality of the paper.

Disclosure statement

The authors declare no conflict of interest.

Author contributions

Conceptualization, R.A. and A.A; methodology, R.A and A.A; software, A.A and R.A.; validation, R.U.R.; M.A.N.; and M.I.A.; formal analysis, A.A. and R.A; investigation, A.A. and R.A; resources, M.A.N and M.I.A; data curation, A.A.; writing—original draft preparation, A.A.; writing—review, revised and editing R.A.; supervision, R.U.R. All authors have read and agreed to the published version of the manuscript.

Funding

There is no external funding available for this research.

ORCID

Rizwan Ali http://orcid.org/0000-0002-4439-6815

References

- Adams, R. B., de Haan, J., Terjesen, S., & van Ees, H. (2015). Board diversity: Moving the field forward. *Corporate Governance: An International Review*, 23(2), 77–82. https://doi.org/10.1111/corg.12106
- Adams, R. B., & Ferreira, D. (2009). Women in the boardroom and their impact on governance and performance. *Journal of Financial Economics*, 94(2), 291–309. https://doi.org/10.1016/j.jfineco.2008.10.007
- Adams, R. B., & Funk, P. (2012). Beyond the glass ceiling: Does gender matter? *Management Science*, 58(2), 219–235. https://doi.org/10.1287/mnsc.1110.1452
- Adhikari, B. K., Agrawal, A., & Malm, J. (2019). Do women managers keep firms out of trouble? Evidence from corporate litigation and policies. *Journal of Accounting and Economics*, 67(1), 202–225. https://doi.org/10.1016/j.jacceco.2018.09.004
- Al-Matari, E. M., Al-Swidi, A. K., & Fadzil, F. H. B. (2014). The measurements of firm performance's dimensions. Asian Journal of Finance & Accounting, 6(1), 24.
- Anderson, R. C., Reeb, D. M., Upadhyay, A., & Zhao, W. (2011). The economics of director heterogeneity. *Financial Management*, 40(1), 5–38. https://doi.org/10.1111/j.1755-053X.2010. 01133.x
- Ararat, M., Aksu, M., & Tansel Cetin, A. (2015). How board diversity affects firm performance in emerging markets: Evidence on channels in controlled firms. *Corporate Governance: An International Review*, 23(2), 83–103. https://doi.org/10.1111/corg.12103
- Arun, T. G., Almahrog, Y. E., & Aribi, Z. A. (2015). Female directors and earnings management: Evidence from UK companies. *International Review of Financial Analysis*, 39, 137–146.
- Bajra, U., & Čadež, S. (2018). Audit committees and financial reporting quality: The 8th EU Company Law Directive perspective. *Economic Systems*, 42(1), 151–163. https://doi.org/10.1016/j.ecosys.2017.03.002
- Bajra, U., & Cadez, S. (2018). The impact of corporate governance quality on earnings management: Evidence from European companies cross-listed in the US. *Australian Accounting Review*, 28(2), 152–166. https://doi.org/10.1111/auar.12176



- Bajra, U., & Čadež, S. (2019). Alternative regulatory policies, compliance and corporate governance quality. Baltic Journal of Management, 15(1), 42-60. https://doi.org/10.1108/BJM-11-2018-0373
- Bart, C., & McQueen, G. (2013). Why women make better directors. International Journal of Business Governance and Ethics, 8(1), 93-99. https://doi.org/10.1504/IJBGE.2013.052743
- Bennouri, M., Chtioui, T., Nagati, H., & Nekhili, M. (2018). Female board directorship and firm performance: What really matters? Journal of Banking & Finance, 88, 267-291. https:// doi.org/10.1016/j.jbankfin.2017.12.010
- Bianco, M., Ciavarella, A., & Signoretti, R. (2015). Women on corporate boards in I taly: The role of family connections. Corporate Governance: An International Review, 23(2), 129-144. https://doi.org/10.1111/corg.12097
- Blanco, E., Lozano, J., & Rey-Maquieira, J. (2009). A dynamic approach to voluntary environmental contributions in tourism. Ecological Economics, 69(1), 104-114. https://doi.org/10. 1016/j.ecolecon.2009.07.012
- Brahma, S., Nwafor, C., & Boateng, A. (2020). Board gender diversity and firm performance: The UK evidence. International Journal of Finance & Economics. Advance online
- Carter, D. A., D'Souza, F., Simkins, B. J., & Simpson, W. G. (2010). The gender and ethnic diversity of US boards and board committees and firm financial performance. Corporate Governance: An International Review, 18(5), 396-414. https://doi.org/10.1111/j.1467-8683. 2010.00809.x
- Carter, D. A., Simkins, B. J., & Simpson, W. G. (2003). Corporate governance, board diversity, and firm value. The Financial Review, 38(1), 33-53. https://doi.org/10.1111/1540-6288.00034
- Chan, K. C., & Li, J. (2008). Audit committee and firm value: Evidence on outside top executives as expert-independent directors. Corporate Governance: An International Review, 16(1), 16-31. https://doi.org/10.1111/j.1467-8683.2008.00662.x
- Compernolle, T. (2018). Communication of the external auditor with the audit committee: Managing impressions to deal with multiple accountability relationships. Accounting, Auditing & Accountability Journal, 31(3), 900–924.
- Cook, A., & Glass, C. (2014). Women and top leadership positions: Towards an institutional analysis. Gender, Work & Organization, 21(1), 91-103. https://doi.org/10.1111/gwao.12018
- Daily, C. M., Dalton, D. R., & Cannella, A. A. Jr. (2003). Corporate governance: Decades of dialogue and data. Academy of Management Review, 28(3), 371-382. https://doi.org/10.5465/ amr.2003.10196703
- Deb, B. C., & Siddique, F. K. (2017). Relationship between corporate governance and financial performance of banking industry in Bangladesh. Journal of Management (JOM), 4(2), 50-61.
- Deloitte, L. L. P. (2019). Missing pieces report: The 2018 board diversity census of women and minorities on Fortune 500 boards.
- Faccio, M., & Lang, L. H. (2002). The ultimate ownership of Western European corporations. Journal of Financial Economics, 65(3), 365-395. https://doi.org/10.1016/S0304-405X(02)00146-0
- Fama, E. F., & Jensen, M. C. (1983). Separation of ownership and control. The Journal of Law and Economics, 26(2), 301-325. https://doi.org/10.1086/467037
- Fan, Y., Jiang, Y., Zhang, X., & Zhou, Y. (2019). Women on boards and bank earnings management: From zero to hero. Journal of Banking & Finance, 107, 105607. https://doi.org/10. 1016/j.jbankfin.2019.105607
- Farrell, K. A., & Hersch, P. L. (2005). Additions to corporate boards: The effect of gender. Journal of Corporate Finance, 11(1-2), 85-106. https://doi.org/10.1016/j.jcorpfin.2003.12.001
- Gao, Y., Kim, J. B., Tsang, D., & Wu, H. (2017). Go before the whistle blows: An empirical analysis of director turnover and financial fraud. Review of Accounting Studies, 22(1), 320–360. https://doi.org/10.1007/s11142-016-9381-z
- García-Meca, E., García-Sánchez, I. M., & Martínez-Ferrero, J. (2015). Board diversity and its effects on bank performance: An international analysis. Journal of Banking & Finance, 53, 202-214. https://doi.org/10.1016/j.jbankfin.2014.12.002

- Gedajlovic, E., Carney, M., Chrisman, J. J., & Kellermanns, F. W. (2012). The adolescence of family firm research: Taking stock and planning for the future. Journal of management, 38(4), 1010–1037.
- Gedajlovic, E., Cao, Q., & Zhang, H. (2012). Corporate shareholdings and organizational ambidexterity in high-tech SMEs: Evidence from a transitional economy. Journal of Business Venturing, 27(6), 652-665.
- Ghaleb, B. A. A., Kamardin, H., & Tabash, M. I. (2020). Family ownership concentration and real earnings management: Empirical evidence from an emerging market. Cogent Economics & Finance, 8(1), 1751488. https://doi.org/10.1080/23322039.2020.1751488
- Gomez-Mejia, L. R., Cruz, C., Berrone, P., & De Castro, J. (2011). The bind that ties: Socioemotional wealth preservation in family firms. Academy of Management Annals, 5(1), 653-707. https://doi.org/10.5465/19416520.2011.593320
- Gordini, N., & Rancati, E. (2017). Gender diversity in the Italian boardroom and firm financial performance. Management Research Review, 40(1), 75-94. https://doi.org/10.1108/MRR-02-2016-0039
- Gray, R., Kouhy, R., & Lavers, S. (1995). Corporate social and environmental reporting: a review of the literature and a longitudinal study of UK disclosure. Accounting, Auditing & Accountability Journal, 8(2), 47-77. https://doi.org/10.1108/09513579510146996
- Gul, F. A., Srinidhi, B., & Ng, A. C. (2011). Does board gender diversity improve the informativeness of stock prices? Journal of Accounting and Economics, 51(3), 314-338. https://doi. org/10.1016/j.jacceco.2011.01.005
- Hermalin, B. E., & Weisbach, M. S. (2001). Boards of directors as an endogenously determined institution: A survey of the economic literature (No. w8161). National Bureau of Economic Research.
- Hillman, A. J. (2015). Board diversity: Beginning to unpeel the onion. Corporate Governance: An International Review, 23(2), 104–107. https://doi.org/10.1111/corg.12090
- Ibrahim, H., & Samad, F. A. (2011). Corporate governance mechanisms and performance of public-listed family-ownership in Malaysia. International Journal of Economics and Finance, 3(1), 105-115.
- Jensen, M. C., & Meckling, W. (1976). Theory of the firm: Managerial behavior, agency costs and ownership structure. Journal of Financial Economics, 3(4), 305-360. [Database] https:// doi.org/10.1016/0304-405X(76)90026-X
- Kılıç, M., & Kuzey, C. (2016). The effect of board gender diversity on firm performance: evidence from Turkey. Gender in Management. An International Journal, 31, 434-455.
- Kim, D., & Starks, L. T. (2016). Gender diversity on corporate boards: Do women contribute unique skills? American Economic Review, 106(5), 267-271.
- Kirsch, A. (2018). The gender composition of corporate boards: A review and research agenda. The Leadership Quarterly, 29(2), 346-364. https://doi.org/10.1016/j.leaqua.2017.06.001
- Kumar, P., & Zattoni, A. (2016). Institutional environment and corporate governance. Corporate Governance: An International Review, 24(2), 82-84. https://doi.org/10.1111/corg.
- La Rocca, M., & Cambrea, D. R. (2019). The effect of cash holdings on firm performance in large Italian companies. Journal of International Financial Management & Accounting, 30(1), 30-59. https://doi.org/10.1111/jifm.12090
- Li, X., & Li, Y. (2020). Female independent directors and financial irregularities in Chinese listed firms: From the perspective of audit committee chairpersons. Finance Research Letters, 32, 101320. https://doi.org/10.1016/j.frl.2019.101320
- Liu, Y., Wei, Z., & Xie, F. (2014). Do women directors improve firm performance in China? Journal of Corporate Finance, 28, 169-184. https://doi.org/10.1016/j.jcorpfin.2013.11.016
- Li, J., Zhao, F., Chen, S., Jiang, W., Liu, T., & Shi, S. (2017). Gender diversity on boards and firms' environmental policy. Business Strategy and the Environment, 26(3), 306-315. https:// doi.org/10.1002/bse.1918
- Martín-Ugedo, J. F., Mínguez-Vera, A., & Palma-Martos, L. (2018). Female CEOs, returns and risk in Spanish publishing firms. European Management Review, 15(1), 111-120.



- Monem, R. M. (2013). Determinants of board structure: Evidence from Australia. Journal of Contemporary Accounting & Economics, 9(1), 33-49.
- Morck, R., & Yeung, B. (2009). Never waste a good crisis: An historical perspective on comparative corporate governance. Annu. Rev. Financ. Econ., 1(1), 145-179.
- Moreno-Gómez, J., & Calleja-Blanco, J. (2018). The relationship between women's presence in corporate positions and firm performance. International Journal of Gender and Entrepreneurship, 10(1), 83–100. https://doi.org/10.1108/IJGE-10-2017-0071
- Mustakallio, M., Autio, E., & Zahra, S. A. (2002). Relational and contractual governance in family firms: Effects on strategic decision making. Family business review, 15(3), 205-222.
- Nadeem, M. (2020). Does board gender diversity influence voluntary disclosure of intellectual capital in initial public offering prospectuses? Evidence from China. Corporate Governance: An International Review, 28(2), 100-118. https://doi.org/10.1111/corg.12304
- Neely, A., Gregory, M., & Platts, K. (1995). Performance measurement system design: A literature review and research agenda. International Journal of Operations & Production Management, 15(4), 80-116. https://doi.org/10.1108/01443579510083622
- Nekhili, M., Gull, A. A., Chtioui, T., & Radhouane, I. (2020). Gender-diverse boards and audit fees: What difference does gender quota legislation make? Journal of Business Finance & Accounting, 47(1-2), 52–99. https://doi.org/10.1111/jbfa.12409
- Nguyen, T., Locke, S., & Reddy, K. (2015). Does boardroom gender diversity matter? Evidence from a transitional economy. International Review of Economics & Finance, 37, 184-202. https://doi.org/10.1016/j.iref.2014.11.022
- Nielsen, S., & Huse, M. (2010). The contribution of women on boards of directors: Going beyond the surface. Corporate Governance: An International Review, 18(2), 136-148. https:// doi.org/10.1111/j.1467-8683.2010.00784.x
- Ozdemir, O. (2020). Board diversity and firm performance in the US tourism sector: the effect of institutional ownership. International Journal of Hospitality Management, 91, 102693.
- Papangkorn, S., Chatjuthamard, P., Jiraporn, P., & Chueykamhang, S. (2019). Female directors and firm performance: Evidence from the Great Recession. International Review of Finance, 21, 598-610. https://doi.org/10.1111/irfi.12275
- Pucheta-Martínez, M. C., Bel-Oms, I., & Olcina-Sempere, G. (2016). Corporate governance, female directors and quality of financial information. Business Ethics: A European Review, 25(4), 363–385.
- Rose, C. (2007). Does female board representation influence firm performance? The Danish evidence. Corporate Governance: An International Review, 15(2), 404-413. https://doi.org/10. 1111/j.1467-8683.2007.00570.x
- Sabatier, M. (2015). A women's boom in the boardroom: effects on performance? Applied Economics, 47(26), 2717-2727.
- Sardo, F., & Serrasqueiro, Z. (2018). Intellectual capital, growth opportunities, and financial performance in European firms: Dynamic panel data analysis. Journal of Intellectual Capital, 19(4), 747–767. https://doi.org/10.1108/JIC-07-2017-0099
- Sila, V., Gonzalez, A., & Hagendorff, J. (2016). Women on board: Does boardroom gender diversity affect firm risk. ? Journal of Corporate Finance, 36, 26-53. https://doi.org/10.1016/j. jcorpfin.2015.10.003
- Terjesen, S., Couto, E. B., & Francisco, P. M. (2016). Does the presence of independent and female directors impact firm performance? A multi-country study of board diversity. Journal of Management & Governance, 20(3), 447-483. https://doi.org/10.1007/s10997-014-9307-8
- Tian, Q., & Peterson, D. K. (2016). The effects of ethical pressure and power distance orientation on unethical pro-organizational behavior: the case of earnings management. Business Ethics: A European Review, 25(2), 159-171.
- Triana, M. D. C., Miller, T. L., & Trzebiatowski, T. M. (2014). The double-edged nature of board gender diversity: Diversity, firm performance, and the power of women directors as predictors of strategic change. Organization Science, 25(2), 609-632. https://doi.org/10.1287/ orsc.2013.0842

- Vafaei, A., Ahmed, K., & Mather, P. (2015). Board diversity and financial performance in the top 500 Australian firms. Australian Accounting Review, 25(4), 413-427. https://doi.org/10. 1111/auar.12068
- Wagana, D. M., & Nzulwa, J. D. (2016). Corporate governance, board gender diversity and corporate performance: a critical review of literature. European Scientific Journal, ESJ, 12(7), 221–233. https://doi.org/10.19044/esj.2016.v12n7p221
- Weisbach, M. (1988). Outside Directors and CEO Turnover. Journal of Financial Economics, 20, 431–460. https://doi.org/10.1016/0304-405X(88)90053-0
- Yang, W., Yang, J., & Gao, Z. (2019). Do female board directors promote corporate social responsibility? An empirical study based on the critical mass theory. Emerging Markets Finance and Trade, 55(15), 3452-3471. https://doi.org/10.1080/1540496X.2019.1657402
- Yeh, C. M., & Trejos, B. (2015). The influence of governance on tourism firm performance. Current Issues in Tourism, 18(4), 299-314. https://doi.org/10.1080/13683500.2013.820258
- Yun, J., Ahmad, H., Jebran, K., & Muhammad, S. (2020). Cash holdings and firm performance relationship: Do firm-specific factors matter?. Economic Research-Ekonomska Istraživanja,
- Zhou, C. (2019). Effects of corporate governance on the decision to voluntarily disclose corporate social responsibility reports: evidence from China. Applied Economics, 51(55), 5900-5910.