Bank credit in uncertain times: Islamic vs. conventional banks

Mehmet Huseyin Bilgin

Faculty of Political Science, Istanbul Medeniyet University, Istanbul, Turkey
E-mail: bilginmh@gmail.com

Gamze Ozturk Danisman

Faculty of Management, Kadir Has University, Istanbul, Turkey
E-mail: gamze.danisman@khas.edu.tr

Ender Demir

Faculty of Tourism, Istanbul Medeniyet University, Istanbul, Turkey
E-mail: ender.demir@medeniyet.edu.tr

Amine Tarazi

Université de Limoges, LAPE, 5 rue Félix Eboué, 87031 Limoges Cedex, France.
& Institut Universitaire de France (IUF), 1 rue Descartes, 75231 Paris Cedex 05, France
E-mail: amine.tarazi@unilim.fr

Abstract

This paper explores whether the impact of economic uncertainty on credit growth differs for Islamic vs. conventional banks. Using a sample of 416 banks (58 Islamic and 358 conventional) in 12 countries, the findings indicate that an increase in economic uncertainty significantly decreases the credit growth of conventional banks but does not have any significant impact on Islamic banks' credit growth. Our results are robust to alternative specifications and addressing endogeneity concerns using GMM estimators. We further observe that our findings are stronger for the following countries: (1) countries with explicit deposit insurance protection system for Islamic banks, (2) lower foreign dominance, and (3) countries with a higher share of deposits and assets in Islamic banks.

Keywords: Economic Uncertainty, Credit, Islamic Banks, Conventional Banks

JEL Classification: E50, G21, D81, C23

1. Introduction

Comparison of Islamic and conventional banks with regards to profitability, lending behavior, risk-taking, deposit growth, and stock market returns has received a rising attention especially with the increasing share of Islamic banking in the financial system and their resistance to the global crisis (Khediri et al. 2015). Some studies have documented that their resilience during the global crisis is due to regulations being guided by Shariah principles in which the interest receipt or payments is prohibited and risk-sharing is encouraged between creditors and borrowers (Hasan and Dridi, 2011, Beck et al., 2013). A strand of this literature focuses on whether Islamic banks (IBs) and conventional banks (CBs) are differently affected by economic downturns. Hasan and Dridi (2011) show that IBs' credit growth is higher than that of CBs during the 2007-2009 period and that credit growth of IBs is less affected by the crisis. This draws attention to the importance of the role played by IBs for economic and financial stability. In a comprehensive study including 510 banks (88 Islamic banks) over the 1995-2009 period, Beck et al. (2013) find that Islamic Banks are able to keep a higher loan-deposit ratio compared to conventional banks during domestic crisis periods. Consequently, the lending behavior of Islamic banks is likely to be less affected than that of conventional banks during economic downturns. Ibrahim (2016) show that conventional banks tend to be pro-cyclical implying that a decline in GDP growth leads to a decrease in loan growth in Malaysia. On the contrary, the lending behavior of Islamic banks is not influenced by business cycles and can thus be considered as counter-cyclical. This finding supports the view that Islamic banks could play a stabilizing role for the economy. By using data of 25 Islamic banks and 114 conventional banks from 10 dual-banking countries, Ibrahim and Rizvi (2018) show that there is no significant difference in the lending growth of Islamic and conventional banks during normal periods. However, such behavior differs during crisis periods implying that the lending growth of conventional banks decreases during the crisis period while Islamic banks are immune to the crisis.

This paper builds upon this literature by considering the effect of economic uncertainty (EU) developed by Ahir et al. (2018) as a determinant of the lending behaviors of Islamic and conventional banks. Following the spirit of Baker et al. (2016) who propose a measure of Economic Policy Uncertainty (EPU), Ahir et al. (2018) introduce the World Uncertainty Index (WUI) by counting the frequencies of the word "uncertainty" (and its variants) in the Economist Intelligence Unit (EIU) country reports. While previous studies use crisis periods to examine and compare their effect on IBs and CBs, our aim is to investigate, in a broader framework, how such differences can be driven more generally by the degree of uncertainty,

which is present in both normal times and times of crisis. We hence consider an indicator which can track the economic uncertainty on a continuous basis.

Some papers have investigated the influence of EPU on lending. Bordo et al. (2016), Chi and Li (2017), and Hu and Gong (2019) show that EPU leads to a decrease in credit growth and non-performing loan ratios by using bank-level data and Caglayan and Xu (2019) and Gozgor et al. (2019) document similar findings on the macro-level. Furthermore, Broll et al. (2018) and Moudud-UI-Huq (2019) use this indicator to analyze the risk preferences of the banks.

However, to our knowledge, this is the first paper that explores whether the impact of economic uncertainty (WUI) on credit growth differs for Islamic and conventional banks. By using an international sample of 416 banks (58 Islamic and 358 conventional) in 12 countries, we find that an increase in economic uncertainty has a negative impact on the credit growth of conventional banks while no effect is documented for Islamic banks' credit growth. Our results are robust to using alternative variables and addressing endogeneity with GMM estimators. This finding supports the view that Islamic banks' lending behavior is immune to changes to fluctuations in economic conditions.

The rest of the paper is organized as follows. Section 2 provides details on the data and methodology. Section 3 presents and discusses the findings. Section 4 concludes the paper.

2. Data and Methodology

Our bank-level data is from Fitch Connect and macroeconomic data is obtained from World Bank World Development Indicators. Financial development and bank regulation data are extracted from the World Bank Global Financial Development Database and World Bank Regulation and Supervision Surveys. Following Islam and Rizvi (2018), our initial sample includes only the dual-banking countries that are characterized by a significant presence of Islamic banks. We further follow the filtration implemented by Beck et al. (2013) and include countries with at least four banks with at least three years of consecutive data, which leaves a final sample of 416 banks (58 Islamic and 358 conventional) in 12 countries for the period from 2009 to 2018. The list of countries and the respective number of banks are displayed in Table A1 in the Appendix.

To explore the influence of economic uncertainty on the credit growth of Islamic and conventional banks, we estimate the following baseline model following Abedifar et al. (2013) and Bitar and Tarazi (2019):

$$\begin{aligned} Credit\ growth_{ijt} = & \gamma WUI_{jt} + \delta ISLAMIC_{ijt} + \partial WUI_{jt} * ISLAMIC_{ijt} + \\ & \theta Bank\ Controls_{ijt-1} + \vartheta Country\ Controls_{jt-1} + \beta_t + \varepsilon_{ijt} \end{aligned} \quad (1)$$

where i, j and t stand for bank, country and time, respectively. We include year dummies throughout all specifications. The estimations are conducted using the random-effects GLS method following the extant literature on Islamic banking (Islam and Rizvi, 2018; Abedifar et al., 2013; Bitar and Tarazi, 2019). Random-effects GLS is chosen due to two important reasons: First, methods such as ordinary least squares (OLS) do not take into account the panel structure of the data. Second, the Islamic bank dummy in our model is time-invariant and therefore a fixed effect model would be irrelevant. For robustness, we use dynamic panel data estimation techniques using a two-step system GMM method with robust standard errors, which is estimated by the following regression:

$$\begin{aligned} Credit\ growth_{ijt} = & Credit\ growth_{ijt-1} + \gamma WUI_{jt} + \delta ISLAMIC_{ijt} + \\ & \partial WUI_{jt} * ISLAMIC_{ijt} + \theta Bank\ Controls_{ijt-1} + \vartheta Country\ Controls_{jt-1} + \beta_t + \varepsilon_{ijt} \end{aligned} \quad (2)$$

Our dependent variable is CREDIT GROWTH, which is the annual growth rate of bank loans. WUI is the world economic uncertainty index constructed by Ahir et al. (2018) and counts the frequencies of the word “uncertainty” (and its variants) in the Economist Intelligence Unit (EIU) country reports. The values are comparable across countries because the index is based on a single source and the raw counts are scaled by the total number of words in each report (Ahir et al., 2018). Therefore, it is superior compared to other uncertainty measures (Gozgor et al. 2019). ISLAMIC is a dummy variable that equals 1 for Islamic banks and 0 for conventional banks. *Bank Controls* are chosen from the bank-specific determinants of bank lending prevalent in the literature, mainly following Hu and Gong (2019) and Nguyen et al. (2020). They include DEPOSIT SHARE calculated as total deposits/total assets; LISTED which is a dummy variable for listed banks; 0 otherwise; SIZE measured as the natural logarithm of total assets; EQUITY SHARE calculated as the share of equity to total assets; LLP which denotes the ratio of loan loss provisions to net interest revenue and COST TO INCOME measured as total costs/total income. *Country Controls* incorporate the

macroeconomic and financial development variables which are listed in Table 1 together with descriptive statistics:

>>>>INSERT TABLE 1 HERE<<<<

The correlation coefficients between the independent variables are provided in Appendix Table A2 which do not indicate major multicollinearity issues.

3. Findings

The findings are displayed in Table 2 where Column 1 includes only bank controls and Columns 2 and 3 incorporate additional macro and financial development controls. The negative and significant coefficient of WUI in Columns 1-3 reveal that an increase in economic uncertainty has a negative impact on the credit growth of conventional banks. The negative impact is not only statistically but also economically sizeable, as one standard deviation increase in uncertainty (0.13) depresses the growth rate of credits by 4.57 percentage points ($35.162\% \times 0.13$). This is consistent with the view that conventional banks have a tendency of restraining credits when the level of uncertainty elevates (Bordo et al., 2016; Chi and Li, 2017; Hu and Gong, 2019). However, for Islamic banks, as displayed in Table 2 the sum of coefficients of ISLAMIC and ISLAMIC*WUI variables is insignificant showing that we observe no significant effect of WUI on Islamic banks' credit growth. Therefore, under uncertainties, while conventional banks tend to significantly decrease their lending, Islamic banks do not adjust their behavior and lending is unaffected from the uncertainty fluctuations. For robustness, Column 4 and 5 split the sample into Islamic and conventional banks and confirm our main findings. Column 6 employs a two-step system GMM and our results are robust under a dynamic model with the diagnostic tests (the Hansen test and AR(1) and AR(2) tests) supporting the validity of the two-step system GMM dynamic model.

>>>>INSERT TABLE 2 HERE<<<<

Table 3 provides some additional insights by splitting the sample along important country characteristics, mainly following Mollah et al. (2017) and Abedifar et al. (2013). It shows the results for the estimations of countries that have explicit deposit insurance for Islamic banks vs. those who do not (Columns 1 and 2), and high vs. low foreign presence (Columns 3 and

4), where foreign bank assets/total assets is higher vs. lower than the 75th percentile, respectively. To gain insight into whether the results would differ for the countries that have different Islamic bank presence, we conduct the estimations in Columns 5&6 for countries that have a high vs. low share deposits share in Islamic banks where the percentage of the banking system's deposits in Islamic banks is higher vs. lower than 50th percentile, respectively. Moreover, in Columns 7&8 we include an additional proxy for Islamic bank presence and use the percentage of the banking system's assets in Islamic banks and whether the share is higher vs. lower than 50th percentile, respectively.

We observe that our findings are stronger under the following specifications: (1) countries with explicit deposit insurance protection system for Islamic banks, (2) lower foreign dominance, and (3) countries with a higher share of deposits and assets in Islamic banks. Therefore, these observations imply that the lending behavior of Islamic banks are immune to and lending growth of conventional banks is negatively affected by economic uncertainties for countries that provide special protection for Islamic banks through an explicit deposit insurance mechanism; and for the countries that have lower foreign assets, but higher Islamic bank presence.

The control variables have generally expected signs. Specifically, bank credit growth increases for banks with higher equity share and cost-to-income and for countries with higher GDP growth and unemployment. On the other hand, bank lending decreases for banks with higher deposits and loan loss provisions share and larger banks.

>>>>INSERT TABLE 3 HERE<<<<

4. Conclusion

We examine whether the effect of economic uncertainty on credit growth differs for Islamic vs. conventional banks. Using a sample of 416 banks (58 Islamic and 358 conventional) in 12 countries, the paper documents that a rise in economic uncertainty has a negative effect on the credit growth of conventional banks but does not have any significant impact on Islamic banks' credit growth. Our results are robust to the use of alternative variables and specifications. Moreover, a deeper investigation reveals that Islamic banks are more strongly immune to economic uncertainty downturns in countries with explicit deposit insurance protection for Islamic banks, lower foreign presence, and countries with a higher share of

deposits and assets in Islamic banks. Our findings contribute to our knowledge on financial intermediation and have several policy implications. Conventional banks operate alongside with Islamic banks in more and more countries around the world. Where this is the case, regulators and policy makers need to closely consider the structure of the banking system when designing policies to ensure that banks continue to lend to contribute to the real economy in times of higher uncertainty.

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Table 1. Variables and descriptive statistics

Variables		Mean	SD
Dependent variables			
CREDIT GROWTH	Annual growth of gross loans	22.99%	34.20%
Independent variables			
WUI	Average quarterly country-specific World Uncertainty index (WUI) index	0.14	0.13
ISLAMIC	A dummy variable that takes the value of 1 for Islamic banks; 0 for conventional banks	0.14	0.35
DEPOSIT SHARE	Total deposits/total assets	66.28%	19.78%
LISTED	A dummy variable equals 1 for publicly listed banks; 0 otherwise	0.46	0.50
SIZE	Ln (total assets)	7.82	1.86
EQUITY SHARE	Equity to total assets	16.66%	15.53%
LLP	Loan loss provisions/ net interest revenue	20.29%	29.70%
COST TO INCOME	Total costs/ total income	56.11%	28.58%
Country Controls			
GDP GROWTH	Real GDP growth rate	5.12%	2.21%
UNEMPLOYMENT	Unemployment rate (% of total labor force)	5.59%	3.49%
OIL MINERAL	Oil and mineral rents as a share of GDP	7.27%	12.13%
CREDIT TO PRIVATE	Domestic credit to private sector (% of GDP)	51.98%	28.59%
INTEREST RATE	Lending interest rate	10.51%	3.63%
DEPOSIT INSURANCE	Takes a value of 1 if the country has an explicit deposit insurance protection system for Islamic banks; 0 otherwise	0.70	0.46
FOREIGN DOMINANCE	Foreign bank assets among total bank assets (%)	18.23%	13.90%
DEPOSITS IN ISLAMIC BANKS	The percentage of the banking system's deposits in Islamic banks	12.82%	10.15%
ASSETS IN ISLAMIC BANKS	The percentage of the banking system's assets in Islamic banks	11.75%	9.62%

Table 2: The effect of WUI on credit growth of Islamic vs. Conventional banks

	(1)	(2)	(3)	(4) (Islamic)	(5) (Conventional)	(6) (GMM)
ISLAMIC	-5.101 (3.71)	-5.295 (3.79)	-4.824 (3.82)			-22.311** (8.72)
WUI	-13.104** (5.61)	-17.869*** (6.03)	-35.162*** (8.62)	0.675 (13.39)	-19.455*** (6.50)	-11.951** (6.09)
ISLAMIC*WUI	16.259 (18.02)	29.888 (19.49)	40.054* (20.45)			78.465** (35.91)
WUI+ISLAMIC*WUI	3.155	12.019	4.893			66.514
WUI+ISLAMIC*WUI –p-value	0.86	0.53	0.81			0.48
L.DEPOSIT SHARE	-0.300*** (0.05)	-0.280*** (0.05)	-0.260*** (0.06)	-0.117* (0.06)	-0.278*** (0.07)	-0.041 (0.07)
L.LISTED	-0.714 (2.36)	-1.545 (2.28)	-1.793 (2.35)	1.089 (2.72)	-1.755 (2.61)	-1.624 (1.40)
L.SIZE	-2.110*** (0.70)	-1.699** (0.71)	-1.958** (0.85)	-3.007** (1.20)	-1.429* (0.80)	-1.799*** (0.56)
L.EQUITY SHARE	0.645*** (0.09)	0.532*** (0.09)	0.820*** (0.10)	-0.089 (0.11)	0.671*** (0.10)	0.09 (0.19)
L.LLP	-0.055*** (0.02)	-0.047** (0.02)	-0.040* (0.02)	-0.099** (0.04)	-0.031 (0.03)	
L.COST TO INCOME	0.239*** (0.03)	0.238*** (0.03)	0.164*** (0.04)	-0.016 (0.06)	0.287*** (0.04)	0.042 (0.05)
L.GDP GROWTH		0.474 (0.33)	1.176*** (0.40)	0.015 (0.50)	0.526 (0.39)	0.422 (0.33)
L.UNEMPLOYMENT		1.030*** (0.29)	1.251*** (0.34)	-0.079 (0.37)	1.210*** (0.33)	0.449** (0.22)
L.OIL MINERAL		-0.078 (0.11)	0.074 (0.15)	-0.048 (0.13)	-0.082 (0.12)	0.079 (0.08)
L.CREDIT TO PRIVATE			0.016 (0.06)			
L.INTEREST RATE			0.691 (0.55)			
L.CREDIT GROWTH						0.286*** (0.05)
CONSTANT	45.279*** (7.89)	34.377*** (8.52)	20.957 (13.24)	60.252*** (13.03)	26.026*** (9.95)	25.592** (10.70)
R2	0.1554	0.1241	0.1376	0.2717	0.1349	
Observations	2644	2361	1939	316	2045	2242
Number of Banks	375	371	295	53	318	374
Year FE	YES	YES	YES	YES	YES	YES
Number of instruments						310
AR1						-4.28***
AR2						0.58
Hansen test						26.77

Note: This table displays the regression results of the impact of WUI on credit growth of Islamic vs. conventional banks. The dependent variable is CREDIT GROWTH in all columns. The regressions in Columns 1-5 are estimated using random effects, generalized least square (GLS) regressions. Column 1 includes bank controls and Column 2 & 3 includes macro controls. Columns 4 and 5 split the sample into Islamic and Conventional banks, respectively. Column 6 employs dynamic panel data estimation techniques with two-step system GMM estimators. Robust standard errors are incorporated and reported in parentheses. * p<0.10, ** p<0.05, *** p<0.010

Table 3: The effect of WUI on credit growth of Islamic vs. Conventional banks: Split samples into country characteristics

	(1) (Deposit insurance)	(2) (No Deposit insurance)	(3) (High Foreign dominance)	(4) (Low Foreign dominance)	(5) High share of deposits in Islamic banks	(6) Low share of deposits in Islamic banks	(7) High share of assets in Islamic banks	(8) Low share of assets in Islamic banks
ISLAMIC	-8.657*	3.95	0.185	-10.109*	-7.622	-16.170*	-7.694	-15.883*
	-4.772	-6.915	-4.061	-5.291	-4.779	-8.266	-4.769	-8.349
WUI	-22.935*	28.344***	-9.108	-15.826**	-29.212***	25.201*	-28.465***	24.854*
	-13.101	-9.705	-13.1	-7.601	-8.762	-14.292	-8.709	-14.469
ISLAMIC*WUI	50.558**	-21.711	7.713	41.09	34.976*	92.685**	34.401*	92.602**
	-25.778	-61.107	-34.927	-26.275	-20.861	-42.986	-20.84	-43.129
L.LISTED	-6.638**	-8.463**	-1.879	-7.076**	-5.273	-6.170*	-5.309	-6.233*
	-2.853	-3.571	-1.611	-2.92	-3.414	-3.209	-3.403	-3.222
L.SIZE	-0.981	-1.007	-1.221**	-3.452***	-1.78	-0.884	-1.758	-0.885
	-0.941	-1.077	-0.594	-0.948	-1.132	-1.025	-1.129	-1.027
L.EQUITY SHARE	0.953***	0.046	0.503***	0.326***	0.736***	0.516***	0.733***	0.517***
	-0.097	-0.097	-0.074	-0.095	-0.106	-0.102	-0.105	-0.103
L.LOAN SHARE	-0.003	-0.185***	-0.003	-0.116***	-0.062**	0.032	-0.061**	0.031
	-0.026	-0.071	-0.023	-0.039	-0.03	-0.033	-0.03	-0.033
L.COST TO INCOME	0.213***	0.380***	0.149***	0.249***	0.166***	0.284***	0.164***	0.284***
	-0.041	-0.066	-0.035	-0.048	-0.044	-0.049	-0.044	-0.05
L.GDP GROWTH	0.352	0.496	1.852**	0.797*	1.072***	-0.772	1.109***	-0.895
	-0.69	-0.554	-0.744	-0.411	-0.366	-1.05	-0.363	-1.143
L.UNEMPLOYMENT	3.570***	0.456	0.11	0.477	0.697*	1.694*	0.721*	1.659*
	-1.279	-0.426	-0.255	-0.398	-0.374	-0.978	-0.372	-0.983
L.OIL MINERAL	-0.206*	0.671**	0.157	-0.067	-0.14	3.192**	-0.134	3.026**
	-0.121	-0.273	-0.308	-0.117	-0.119	-1.306	-0.119	-1.431
CONSTANT	-0.237	10.858	17.104**	38.710***	14.887	-1.131	14.333	0.269
	-11.773	-12.854	-8.583	-10.374	-11.347	-14.233	-11.281	-15.036
R2	0.1182	0.2351	0.1299	0.1838	0.096	0.2058	0.0968	0.1931
Observations	1589	601	1175	1272	1347	1100	1352	1095
Number of Banks	237	94	359	302	261	158	261	157
Year FE	YES	YES	YES	YES				

Notes: This table shows the WUI and credit growth relationship by splitting the sample into some country characteristics. The estimations are conducted using random effects, generalized least square (GLS) regressions. CREDIT GROWTH is used as dependent variable in all columns. Column 1 (Column 2) show countries which have (do not have) explicit deposit insurance for Islamic banks. Column 3 (Column 4) indicate high (low) foreign dominance countries when foreign bank assets/total assets is higher than 75th percentile (lower than 75th percentile). Column 5&7 (Column 6&8) display high (low) share of deposits (assets) in Islamic banks when the percentage of the banking system's deposits (assets) in Islamic banks is higher than 50th percentile (lower than 50th percentile). Robust Standard errors reported in parentheses. * p<0.10, ** p<0.05, *** p<0.01

Appendix

Table A1. List of Countries and Number of Bank for Each Type

	Islamic Banks	Conventional Banks	Total
BANGLADESH	5	49	54
EGYPT	1	24	25
INDONESIA	8	113	121
JORDAN	3	11	14
KUWAIT	3	14	17
MALAYSIA	15	29	44
PAKISTAN	5	29	34
QATAR	5	8	13
SAUDI ARABIA	3	10	13
TURKEY	1	45	46
UNITED ARAB EMIRATES	6	22	28
YEMEN	3	4	7
Total	58	358	416

Table A2. Correlations

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1) WUI	1												
(2) ISLAMIC	-0.0931*	1											
(3) DEPOSIT SHARE	-0.1916*	0.0527*	1										
(4) LISTED	-0.0754*	-0.0585*	0.2919*	1									
(5) SIZE	0.0358*	0.0655*	0.2154*	0.3394*	1								
(6) EQUITY SHARE	0.0940*	-0.0372*	-0.5988*	-0.1599*	-0.4892*	1							
(7) LLP	-0.0093	0.0370*	0.0048	0.0748*	0.0179	-0.0112	1						
(8) COST TO INCOME	0.0116	0.0362*	0.0362*	-0.0600*	-0.3886*	0.1366*	0.2199*	1					
(9) GDP GROWTH	-0.0272	-0.0251	-0.0535*	-0.1038*	-0.1195*	0.019	-0.0435*	0.0557*	1				
(10) UNEMPLOYMENT	0.3928*	-0.1282*	0.014	-0.0324	0.0168	-0.0215	-0.0401*	-0.0445*	-0.0975*	1			
(11) OIL MINERAL	-0.0402*	0.1166*	0.02	0.2425*	0.2530*	0.1235*	0.1236*	-0.0807*	-0.0851*	-0.1806*	1		
(12) CREDIT TO PRIVATE	0.0473*	0.2137*	-0.2217*	-0.1149*	0.2017*	0.0620*	0.0451*	-0.0839*	-0.0901*	-0.1071*	0.1647*	1	
(13) INTEREST RATE	0.0636*	-0.2081*	0.2574*	0.0009	-0.2833*	-0.1398*	0.0037	0.0393*	0.0805*	0.3097*	-0.4002*	-0.8270*	1