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Research Article

The Influence of Indulgence and Long-Term Orientation on A Country's Risk Aversion

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Abstract

This study explores the relationship between the Hofstede's cultural values of indulgencerestraint, long-term-short-term orientation, and risk aversion in 53 developed and developing countries. The author used linear multiple regression analysis, controlled for the countries' per capita income, and religiosity secondary data from multiple sources to test the two hypotheses. These sources include Hofstede's Cultural Study in 2010; Relative Risk Aversion Around the World; the Country-level Religiosity Index; and the World Bank Group. The study results suggest that indulgence has a positive and significant impact on the country's risk aversion. However, the long-term orientation has a positive and non-significant impact on the country's risk aversion. This study confirms that cultural values matter when it comes to risk aversion across countries. The study also shows that the cultural values of individualism and uncertainty avoidance influence risk aversion in countries and they are indulgence-restraint.

Keywords: Risk-Taking, Risk Aversion, Risk-Preference, Risk Attitude.

Introduction

Cultural values indeed cause considerable differences in risk-averse and risk-taking in societies (Rieger, Wang, and Hens, 2011).

Risk aversion is critical in multinational business, behavioral economics, entrepreneurship, life insurance, financial institutions, banking, consumer behavior and unemployment (Gandelman and Hernández-

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Murillo, 2015). Risk aversion has a notable effect on the country's economy and entrepreneurial investments (Guiso, 2012). Therefore, it is worthwhile for researchers to examine many factors that could influence risk preference at the individual, firm and country level. Managers and other policymakers make decisions in several areas that affect businesses in organizations and economies in countries. These decisions might be influenced in one way or another by business and policy decision-makers level of risk preference. The micro-level decisions made by policymakers, business managers and executives could influence a country's development outcome and economic growth (Gandelman and Hernández-Murillo, 2015).

There are few studies on cultural values and their impact on risk-taking (i. e., willingly making risky decisions or taking some actions that may have unwanted results), risk aversion (i. e., avoid taking a few risks to minimize uncertainty and get around failure), and risk acceptance at the firm and individual levels. However, the majority of the studies on risk, aversion has focused on the cultural values of masculinity (MAS). individualism (IND), uncertainty avoidance (UA), power distance (PD), indulgencerestraint (ING), long-term/short-term (LTO), and gender orientation (i.e., male/female). Previous studies have used various proxies as a measure of risk aversion, such as the Z-score, Hofstede uncertainty avoidance, self-assessed risk attitudes, the Pratt-Arrow measure of absolute risk aversion, and other proxies. For example, Kanagaretnam, Lim and Lobo (2014) found that banks in high uncertainty and low individualism cultures are more risk-averse than banks in low uncertainty avoidance and high individualism cultures. This study tries to fill the gap by empirically examining the relationship between the Hofstede cultural values of long-term-short-term orientation (LTO), indulgence-restraint (ING), and risk aversion at the country level in 53 developed and developing countries using the coefficient of relative risk aversion as a proxy for risk aversion.

Literature Review and Hypotheses Development

Risk Aversion

Risk aversion as a concept in business has been defined by many researchers. In this study, risk aversion is defined as a person's preference for a riskless outcome by avoiding making risky decisions (Mandrik and Bao, 2005). Hence, individuals who are riskaverse have the tendency to seek guaranteed outcomes and avoid ambiguity.

Risk aversion is an essential factor in everyone's life decisions, including investors, economists and policymakers, for financial and the economic development decisions that might influence many people's lives. Risk aversion is viewed as a cultural trait at the country level because people with shared cultures are more likely to cluster inside one country (Lehnert, Frijns, Gilbert and Tourani-Rad, 2011). At the country level, risk aversion plays an important part in the economic development and the country's competitiveness (Zahra, 1999). For example, entrepreneurs' risk aversion has a critical influence on a country's employment rate and innovation because entrepreneurs create new job opportunities and innovate new services and goods to consumers (Burton, 2015).

Researchers have developed several measures as proxies to measure risk aversion. For instance, Szpiro (1986) developed the relative risk aversion constant by examining data from liability insurance in 15 countries between 1950 and 1980. Gandelman and Hernández-Murillo (2015) developed the coefficient of relative risk aversion using the Gallup World Poll self-reports data of self-reports on personal wellbeing in 117 developed and developing countries worldwide in 2006.

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Power Distance

Power distance is the degree of expectations and acceptance of individuals to inequality and power differentials in their society. Karimi and Toikka (2014) found a negative and a significant relationship between power distance (i.e., the degree of expectations and acceptance of unequal power distribution by less powerful individuals in a society) and risk acceptance. In other words, societies, in countries that score high in power distance, have less risk acceptance than societies in countries that score low in power distance.

Individualism versus Risk Aversion

Individualism is the extent to which individuals in a society prioritize their personal needs and goals over their groups' goals and well-being. The extant literature shows that there is a relationship between Hofstede's cultural values and risk attitudes (i.e., risk aversion). Researchers have examined the influence of cultural values on risk aversion among individuals. Breuer, Riesener and Salzmann (2014) found that investors in low individualistic countries are more risk-averse than their counterparts in high individualistic countries. In the study conducted by Karimi and Toikka (2014) on the influence of Hofstede's cross-cultural dimensions on risk acceptance, the two researchers concluded that the positive and significant relationship between the cultural value of individualism and risk acceptance means that societies in individualistic countries have more risk acceptance than societies in collectivistic countries. Therefore, in countries with a high level of individualism, investors will be less reluctant to invest in assets that contain high elements of risk.

Masculinity versus Risk Aversion

Masculinity is how much a society assigns different gender social rules for females and males. Iliyanova (2016) measured

masculinity by using the industry sector where men and women work, and found that masculinity has no significant impact on risk aversion. However, Iliyanova (2016) found that gender does have a relationship with risk aversion, where men are less risk-averse than women. It is important to keep in mind that at this point, Hofstede's or the Globe Study indices were not used as a proxy for masculinity. In addition, Karimi and Toikka (2014) found a negative and significant relationship between masculinity and risk acceptance. In other words, societies in countries that scorehigh in masculinity have less risk acceptance than societies in countries that score low in masculinity.

Uncertainty Avoidance versus Risk Aversion

Uncertainty Avoidance Index (UA) is the cultural value that measures the extent to which society members adapt to changes, handle anxiety, and deal with uncertainty. Hofstede (2001) suggests that cultures with high UA values usually feel less comfortable with ambiguous situations and prefer official rules. In contrast, cultures with low UA values feel safe and enjoyable towards the unknown. Countries with high UA values are more likely to be less socially, economically, and politically stable than countries with low UA values (Khambata and Liu, 2005). There is a belief that UA and risk aversion are related because the two dimensions are caused by the same psychological actors (Kahn and Sarin, 1988).

Another study conducted by Munro-Smith (2002) found that individuals with high UA are inclined toward bureaucracy and riskaversion. In addition, Karimi and Toikka (2014) found a negative and significant relationship between uncertainty avoidance and risk acceptance, long-term orientation and risk acceptance, and indulgence and risk acceptance. In other words, societies in countries that score high in uncertainty

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avoidance have less risk acceptance than societies in countries that score low in uncertainty avoidance.

Long-Term Orientation versus Risk Aversion

Long-term orientation (LTO) - short-term orientation (STO) is the extent to which individuals in a society are future-oriented toward rewards, especially thrift (i.e., using money and other resources wisely and not wastefully) and the determination in pursuing something regardless of difficulty (Hofstede, 2001). LTO societies are expected to be more cautious about making risky decisions, and therefore, more risk-averse, On the other hand, short-term orientation individuals are more oriented toward the present and the past, specifically, face-saving, credibility, reputation, respect for tradition, and satisfying social obligations" (Hofstede, 2011). Hence, STO societies are expected to be less cautious about making risky decisions, and therefore, less risk-averse. Following the above argument, hypothesis 1(H1) is proposed:

H1: Societies in countries that score high in the cultural value of long-term orientation will be more risk-averse than societies in countries that score low in the same cultural value.

Indulgence versus Risk Aversion

Indulgence is defined by Hofstede and Minkov (2010) as "the extent to which people try to control their desires and impulses." According to Hofstede (2001), societies in low indulgence countries are inclined to distrust and skepticism. On the other hand, societies in high indulgent countries are inclined to be more confident, optimistic and hopeful about the future (Hofstede, 2011). According to Yıldırım, Arslan and Barutçu (2016), trust relates to optimism, and trust depends on optimism when it comes to the future as trustful people believe that tomorrow is always going to be

better than today. Studies have shown that there is a correlation between pessimism and risk tolerance, as there is a belief among scholars that optimistic people are less riskaverse than pessimistic people (2008). In finance, Guiso (2012) found that investors who are optimistic and have a high level of trust are more likely to accept risky investments such as stocks. In other words. optimism decreases risk aversion. Prior research done on developed nations has suggested that people who are trustful tend to take more financial risks when it comes to investing in stocks (2018). However, greater risk aversion could decline trust between people (2001).

The cultural value of indulgence mirrors an inclination towards the gratification of human beings' natural desires of enjoying life and having fun (Minkov and Hofstede, 2012). Indulgent cultures attach more importance to pleasure and leisure, which leads to more hedonic behaviors (i.e., behaviors that establish positive or pleasant experiences) (Hofstede and Bond, 1988; Minkov and Hofstede, 2012). Hedonic behaviors could lead to riskier decisions, and less riskaversion since pleasure is believed to be more important than the cost of taking a risk (Minkov, 2007). Finally, Karimi and Toikka (2014) found a negative and significant relationship between indulgence and risk acceptance. In other words, societies in countries that score high in indulgence have less risk acceptance than societies in countries that score low in indulgence. Following this line of discussion, the author of this paper expects that indulgence negatively relates to risk-aversion and posits the following hypothesis (H2):

H2: Societies in countries that score high in the cultural value of indulgence will be less risk-averse than societies in countries that score low in the same cultural value.

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Methodology

The Variables' Measurements The Dependent Variable

Risk aversion (i.e., avoid making risky financial and/or non-financial decisions) is the dependent variable for this study measured by the coefficient of relative risk aversion at the country level. The coefficient of relative risk aversion was developed by Gandelman and Hernández-Murillo (2015), using the Gallup World Poll self-reports data of self-reports on the personal well-being in 117 developed and developing countries worldwide in 2006. The coefficient of the relative risk aversion ranges from zero to three, where zero means the population of the corresponding countries is not a riskaverse society, and three means the population of the corresponding country is an extremely risk-averse society. The coefficient of risk aversion was chosen among many risk aversion proxies because this proxy incorporated many developed and developing countries (117 countries) which might be more comprehensive than other proxies that focused mainly on developed countries and covered fewer countries (15 and 31 countries, respectively) around the world. The dataset on relative risk aversion is available at https://dspace.ort.edu.uy/bitstream/ handle/20.50 0.11968/274 3/documentodeinvestigacion98.pdf.

The Independent Variables

Hofstede's cultural dimensions of long-term orientation (i.e., the degree to which society members are future reward oriented, especially towards perseverance and prudence) and indulgence (i.e., the degree to which individuals in society show a favorable or unfavorable reaction to their desires) are the independent variables measured at the country level. The measures for these two

cultural values were borrowed from Manikov and Hofstede's (2012) study. Hofstede made his data on cultural values available to researchers website at his (https://www.hofstedeinsights.com/country comparison/). Hofstede measured the cultural values using a survey of IBM employees in many countries where the IBM subsidiaries are located. However, the longterm orientation cultural value was added from Hofstede and Bond (1988), where they compared between students from 23 different countries using Bond's Chinese Value Survey. Hofstede adopted indulgence versus restraint in his study after he extracted this cultural value from the World Values Survey. Hofstede's cultural measures have shown reliability and validity.

The Control Variables

Both Per capita income (i.e., the average income of an individual in a given country) and religiosity are used as control variables measured at the country level. The author controlled for religiosity because a prior study done by Noussair, Trautmann, Van de Kuilen and Vellekoop (2013) has shown that religious people (i.e., people who attend church regularly) are more risk-averse than non-religious people. The measures of religiosity in countries were borrowed from the Extensive Country-Level Religiosity Index (ECLRI) developed by Joshanloo and Gebauer (2019) at https://psycnet.apa.org /record/ 2019-76861-001. The ECLRI was derived from the 2005 – 2017 Gallup World Poll (GWP) data, where 1,862,900 randomly selected male and female respondents in 167 countries were asked about the importance of religion in their daily lives.

There are conflicting findings regarding the relationship between income and risk aversion. Shaw (1996) found a positive correlation between wage income and risk aversion at the individual level. Haushofer and Fehr (2014) concluded that poor countries are more risk-averse than rich countries. However, l'Haridon and Vieider

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(2019) showed that poorer countries are more risk tolerant than rich countries. In this study, per capita income data were borrowed from the World Development Reports in 2019 published by the World Bank at https://www.worldba.nk.org/en/publicati on/wd r2019.

Data Analysis

The influence of the cultural values of longterm orientation and indulgence on risk aversion with per capita income and religiosity as control variables in 53 developed and developing countries was examined using multiple linear regression analysis because the dependent variable dataset is not normally distributed, which

violates least-squares the regression assumptions. To run the multiple linear regression analysis: First, the Pearson correlation between the variables of interest was checked (see Table1). Second, the author checked the least-squares assumptions and found that the dependent variable data are not normally distributed. Hence, he decided to check for the multiple regression assumptions. It was found that the assumptions are fulfilled (i.e., the mean of the residuals is zero; equal variance or Homoscedasticity of residuals, and multicollinearity) (se. Finally, the author ran the multiple linear regression analysis of the two (i.e., independent variables long-term orientation and indulgence) after controlling for per capita income and religiosity.

Variables	PD	UA	MAS	IND	LTO	ING	RA	PCI	Rel.
PD	1								
UA	.373**	1							
MAS	068	191	1						
IND	697**	401**	.203	1					
LTO	.084	.164	014	.090	1				
ING	339**	234*	.254*	.139	-	1			
					.646* *				
RA	173	216	.107	.100	031	.281*	1		
PCI	713**	206	.177	.716**	.251*	.185	.17	1	
Rel.	.416**	.027	.047	.578**	-	.185	.03	615**	1
					.539*				
					*				
Mean	64.66	72.04	49.02	39.75	49.53	47.09	.94	25905.6	59.421
SD	20.910	19.613	19.109	23.816	25.24	23.234	.50	20580.0	23.526
					7				

Table 1: Descriptive statistics and inter-correlations

Note: N = 53. PD = Power Distance. UA = Uncertainty Avoidance. MAS = Masculinity. IND = Individualism. LTO = Long-term Orientation. ING = Indulgence. RA = Risk Aversion. PCI = Per Capita Income. Rel. = Country Level of Religiosity. SD = Standard Deviation. Comp. = Country Level of Competitiveness.

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Empirical Results

Through the regression analysis results, the author tries to explain the differences across countries that tend to be risk-averse. Table 2 summarizes the multiple linear regression analysis results for variables (i.e., LTO and ING) predicting risk aversion (N = 53). ANOVA shows that the model is significant and fit (i.e., R2 = 0.118; R2 change = 3.49^* ; P < 0.05). The multiple linear regression analysis results also show that indulgence

appears to be a more important cultural variable than long-term orientation. Indulgence was significant when the two (i.e., religiosity and per capita income) control variables were included in the regression and did not control for per capita income and religiosity. Long-term orientation shows no significant relationship with risk aversion. Surprisingly, the two control variables (religiosity and per capita income) were not significant at the country level.

Table 2: Summary of the multiple linear regression analysis for
variables predicting risk-aversion

Variable	В	SE	β	Т	Sig.		
ING	0.010	0.004	0.448	2.577	0.013*		
LTO	0.005	0.003	0.259	1.487	0.143		
R^2 0.118							
F for change in R23.49*							

Note. (N=53). ING = Indulgence. LTO = Long-Term Orientation. B = Unstandardized Coefficient. β = Standardized Coefficient. T = T-Value. Sig. = Significance. *P < 0.05.

Conclusion

The multiple linear regression results of examining 53 developed and developing countries suggest many conclusions about risk-aversion among countries:

- All countries' national culture matters 1. when it comes to the level of riskaversion at the country level. Risk preference is a critical component of the economic behavior because it determines many of a country's economic decisions, such as asset allocations, insurance purchases, and strategic decisions made by corporations (Rieger, Wang and Hens, 2015). In general, highly developed countries with strong economies are expected to be less risk-averse than developing countries.
- Not only do individualism and uncertainty avoidance influence riskaversion in countries, but also the culture of indulgence. Indulgence might significantly influence a society's level of risk-aversion because of confidence, trust, optimism and hedonic behavior.
- 3. A country's religiosity and per capita income seem to be less important

factors that influence risk-aversion among countries and societies.

The author found no significant relationship between religiosity and risk-aversion, as well as between per capita income and riskaversion when religiosity and per capita income were regressed as independent variables on risk-aversion. Finally, this study used the coefficient of relative risk aversion as a proxy for risk-aversion developed by Gandelman and Hernández-Murillo (2015). It is a more comprehensive measure with data availability in many countries. However, future research could use other proxies for risk-aversion to understand whether different risk-aversion measures can provide similar results.

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