IMPACTS OF INTRINSIC MOTIVATIONAL FACTORS AND ATTITUDE ON HALAL FOOD PURCHASE INTENTION, WITH THE COUNTRY OF ORIGIN AS THE MODERATOR IN PAKISTAN

SUMERA SYED

UNIVERSITI TEKNOLOGI MALAYSIA

IMPACTS OF INTRINSIC MOTIVATIONAL FACTORS AND ATTITUDE ON HALAL FOOD PURCHASE INTENTION, WITH THE COUNTRY OF ORIGIN AS THE MODERATOR IN PAKISTAN

SUMERA SYED

A thesis submitted in fulfilment of the requirements for the award of the degree of Doctor of Philosophy

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DEDICATION

This thesis is dedicated to my husband, my parents, and children for their alltime support and unconditional love throughout the many stages of this challenging and rewarding journey

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All the praise goes humbly to 'The One' who created the livings and those on whom the best of the creation, the humans command. 'The One' who bestowed the knowledge upon some to benefit the needy ones, and blessed some to cheer up the lives of the deserving ones. 'The One' who empowered me to undertake the challenging, yet most enthralling paths to follow.

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ABSTRACT

The demand for halal food products has significantly increased during the last two decades. However, so far, the research being done in this area is absolutely not a match for the rising halal food consumption trends. Especially in Pakistan, which is the second-largest Muslim country, halal food studies are exiguous as compared to its other Muslim counterparts. Due to cultural and religious conventions, Pakistanis are perceived to consume only halal food. However, multiple news sources report that a considerable number of consumers have been consuming non-halal food and beverages, either voluntarily or due to a lack of awareness. Moreover, many recent halal food adulteration scandals in Pakistan underscore the need to re-examine the attitude of Pakistani consumers towards halal food purchase intention. Furthermore, globalization, a rise in incomes, and the lack of trust in local food have reportedly resulted in a rise in the demand for imported food products, prompting consideration of the role of the country of origin when making halal food purchase intention. This situation and a significant dearth of empirical studies call into question the intrinsic motivation of Pakistani consumers to use halal food products. In this vein, the primary purpose of this study is to bridge the gap while using a new approach of organismic meta-theory, namely "Self-Determination Theory (SDT)," which deals mainly with intrinsic motivation. Specifically, the present research investigates the influence of the needs for autonomy, competence, and relatedness on halal food purchase intention, which are fundamental pillars of intrinsic motivation. Furthermore, the study analyses the influence of attitude on halal food purchase intention by using the Theory of Reasoned Action. The moderating role of the country of origin in determining halal food purchase intention has also been investigated. Using non-probability convenience sampling, a total of 308 usable data was obtained through an online survey. The data was analysed using the Partial Least Squares-Structural Equation Modeling approach. The results revealed that competence, relatedness, and attitude positively influenced halal food purchase intention. However, the findings discovered that autonomy did not influence halal food purchase intention. Besides, the moderating role of the country of origin was also not significant. The study has contributed to halal food purchase knowledge by analysing—the impact of the three basic psychological needs of autonomy, competence, and relatedness for the first time besides employing Self-Determination Theory to understand intrinsic motivational factors affecting halal food purchase intention. Moreover, the results of the study have set a course of direction for organizations to devise their advertising and marketing strategies accordingly. From a policy-making perspective, these findings provide insight for the government to understand the importance of halal food among Pakistani consumers and further strengthen the efficient operation of the Pakistan Halal Food Authority (PHFA), which is responsible for the regulation of authentic halal food products.

ABSTRAK

Permintaan terhadap produk makanan halal telah meningkat dengan ketara dalam tempoh dua dekad yang lalu. Walau bagaimanapun, setakat ini, penyelidikan yang dilakukan di bidang ini tidak setimpal dengan perkembangan penggunaan makanan halal yang semakin meningkat. Terutamanya di Pakistan, yang merupakan negara Islam kedua terbesar, kajian makanan halal adalah jelas berbanding rakan negara Islam yang lain. Rakyat Pakistan dianggap hanya mengambil makanan halal disebabkan konvensyen budaya dan agama. Walau bagaimanapun, beberapa sumber berita melaporkan bahawa sebilangan besar pengguna menggunakan makanan dan minuman tidak halal, sama ada secara sukarela atau disebabkan oleh kekurangan kesedaran. Selain itu, banyak skandal pemalsuan makanan halal baru-baru ini di Pakistan menekankan keperluan untuk mengkaji semula sikap pengguna Pakistan terhadap niat membeli makanan halal. Tambahan pula, globalisasi, peningkatan pendapatan, dan kurangnya kepercayaan terhadap makanan tempatan telah mengakibatkan peningkatan dalam permintaan terhadap produk makanan import, yang mendorong pertimbangan peranan negara asal apabila membuat niat membeli makanan halal. Keadaan ini dan kekurangan kajian empirikal yang ketara mempersoalkan motivasi intrinsik pengguna Pakistan untuk menggunakan produk makanan halal. Maka, tujuan utama kajian ini adalah untuk merapatkan jurang ini dengan menggunakan pendekatan baru teori meta-organisma, iaitu Self-Determination Theory yang membincangkan motivasi intrinsik. Secara khususnya, penyelidikan ini menyiasat pengaruh keperluan autonomi, kecekapan, dan perkaitan ke atas niat membeli makanan halal, yang menjadi tonggak asas motivasi intrinsik. Seterusnya,-kajian ini juga menganalisis pengaruh sikap terhadap niat membeli makanan halal dengan menggunakan Theory of Reasoned Action. Selain itu, peranan penyederhanaan negara asal dalam menentukan niat pembelian makanan halal telah disiasat. Menggunakan pensampelan mudah bukan kebarangkalian, sejumlah 308 data boleh guna diperoleh melalui tinjauan dalam talian. Data ini telah dianalisis menggunakan pendekatan Partial Least Squares-Structural Equation Modeling. Hasil kajian menunjukkan bahawa kecekapan, perkaitan dan sikap secara positif mempengaruhi niat membeli makanan halal. Walau bagaimanapun, penemuan mendapati bahawa autonomi tidak mempunyai pengaruh ke atas niat membeli makanan halal. Selain itu, peranan penyederhana negara asal juga tidak signifikan. Kajian ini telah menyumbang kepada pengetahuan tentang pembelian makanan halal dengan menggunakan kesan tiga keperluan asas psikologi iaitu autonomi, kecekapan dan perkaitan terhadap niat membeli makanan halal yang telah dikaji buat kali pertama selain menggunakan Self-Determination Theory untuk memahami faktor motivasi intrinsik yang mempengaruhi niat membeli makanan halal. Hasil kajian menetapkan hala tuju kepada organisasi untuk merangka strategi pengiklanan dan pemasaran mereka dengan sewajarnya. Dari perspektif penggubalan dasar, penemuan ini memberi wawasan kepada kerajaan untuk memahami kepentingan makanan halal dalam kalangan pengguna Pakistan dan seterusnya mengukuhkan operasi cekap Pihak Berkuasa Makanan Halal Pakistan (PHFA) yang bertanggungjawab terhadap peraturan berkaitan produk makanan halal yang tulen.

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LIST OF ABBREVIATIONS

AVE - Average Variance Extracted

CB-SEM - Covariance Based Structural Equation Modelling

COO - Country of Origin

EFA - Exploratory Factor Analysis

KMO - Kaiser-Meyer-Olkin

PIA - Product Indicator Approach

PLS - Partial Least Square

SDT - Self-determination Theory

SEM - Structural Equation Modelling

SPSS - Statistical Package for Social Science

TRA - Theory of Reasoned Action

TPB - Theory of Planned Behaviour

VIF - Variance Inflation Factor

LIST OF SYMBOLS

 β - Beta Coefficients

*R*² - Coefficients of Determination

 f^2 - Effect Size

 Q^2 - Predictive Relevance

p - Probability Value

t - t-test Value

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CHAPTER 1

INTRODUCTION

1.1 Overview

The first chapter focuses on the importance of conducting research on the halal food industry. Then, the gaps in the literature have been addressed in the problem statement, which vindicates the significance of carrying out the present study. Thereafter, research questions and research objectives have been illustrated. Subsequently, research significance has been discussed, which is followed by a short debate on research scope. The discussion then leads to a brief definition of the terms used in the study. Finally, the organization of the thesis has been described.

1.2 Background of the Study

The global population consists of 1.94 billion Muslims, contributing to around one-fourth of the world population (Schleifer et al., 2022). According to Pew Research Center studies, Muslims are expected to outnumber Christians by the year 2060, with the number of Muslims reaching approximately 3 billion (Diamant, 2019). The growing Muslim population has a highly influential impact on international business. According to the State of the Global Islamic Economy Report 2022 by Zawya (2022), Muslim consumers' spendings in 2021 accounted for more than \$2 trillion worldwide. Nevertheless, with an enormous increase in Muslims' purchasing power, the businesses catering to Muslims are enjoying considerable growth in revenues. The global halal food industry, in particular, is expected to gain a market worth of approximately US\$ 3,907.7 billion by 2027, up from US\$ 1,978 billion in 2021, representing an annual growth rate of 11.24% (Research and

Markets, 2022). Figure 1.1 reveals that halal meat, poultry, and seafood hold the biggest share of the global halal food industry, followed by dairy products. In addition, fruits and vegetables, cereals and grains, oils, fats, and waxes, and confectionery are the most significant products contributing to the global halal food market.

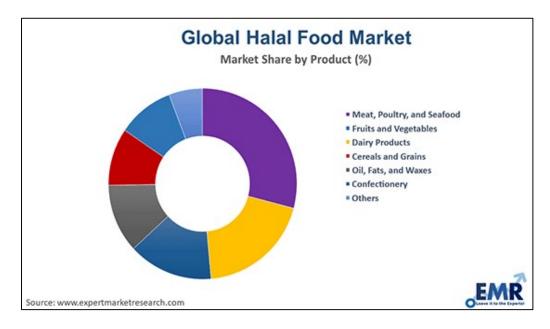


Figure 1.1 Global halal food market (Expert Market Research, 2022)

As the global halal food market has been growing, Asia Pacific has been identified as the largest region contributing to the world halal food industry's growth (Figure 1.2), with a large consumer base residing in Pakistan, Indonesia, Bangladesh, and India (Markets and Markets, 2019). However, the past research on halal food reveals a lack of studies on halal food in a Pakistani context, which is the second largest nation inhabited by a Muslim population after Indonesia.

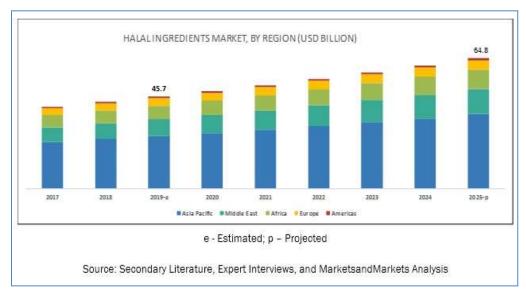


Figure 1.2 Global halal market share (Markets and Markets, 2019)

Around 96.5% of the population of Pakistan consists of Muslims, contributing to approximately 11% of the total global Muslim population and accounting for a significant proportion of the global halal industry (Countrymeters, 2022). According to a report issued in 2020 by the Board of Investment (BOI), the food and beverage industry is the second main contributor to Pakistan's national economy after textiles, adding up to 27% of value-added products and 16% of employment in the country. Though the data shared by the Pakistan Bureau of Statistics (2020) indicates a slight decline in an individual's monthly expenditure on food consumption from 37.05% in the year 2015-16 to 36.05% in the year 2018-19, the spending for the food and non-alcoholic beverages group was significantly higher in comparison with other commodities (Figure 1.3). In addition, the monthly spending on hotels and restaurants was found to be 6.35% for the period 2018-19 as compared to 6.18% during the year 2015-16, indicating an increase in Pakistani consumers' propensity to dine out. Hence, it is gathered that food holds the utmost importance for Pakistani individuals among all the commodities, both in rural and urban areas of the country.

Nonetheless, the expenditure on alcoholic beverages and tobacco was found to be 0.97% of the monthly income, which is the lowest spending commodity of all. Although the use of alcohol has been legally outlawed for Muslims in Pakistan since

1977 and one may assume that the alcohol consumption figures may largely pertain to non-Muslim consumers in Pakistan, many news sources demonstrate that this is not the case. Despite the prohibition, a few large hotels across the nation and a few wine shops in Sindh province, particularly in the country's largest metropolis, Karachi, have licenses to sell alcoholic beverages to non-Muslims (Bari, 2021). However, only non-Muslims are sold alcohol, despite the fact that 90% of buyers are actually Muslims, mostly belonging to the elite and upper middle class (Zafar, 2014).

COMMODITY GROUPS		2015-16		2018-19			
COMMODITY GROUPS	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	
Food & Non Alcoholic Beverages	31.25	42.13	37.05	30.64	41.13	36.05	
Alcoholic Beverages, Tobacco	0.88	1.32	1.11	0.81	1.13	0.97	
Clothing and Foot Wear	8.23	9.78	9.05	6.85	8.14	7.52	
Housing, Water, Electricity, Gas and Other	27.76	19.06	23.12	28.62	19.20	23.76	
Furnishing, Household Equipment and Routine Maintenance of the House	2.83	2.56	2.69	3.09	3.00	3.04	
Health	2.37	3.62	3.04	2.63	3.78	3.22	
Transport	5.43	4.96	5.18	6.89	6.75	6.82	
Communication	2.42	2.06	2.22	2.14	1.74	1.93	
Recreation & Culture	1.78	1.42	1.59	1.06	1.31	1.19	
Education	5.01	2.20	3.51	5.50	2.56	3.98	
Restaurants and Hotels	6.87	5.59	6.18	6.56	6.16	6.35	
Miscellaneous	5.18	5.31	5.25	5.22	5.09	5.15	

Figure 1.3 Percentage of monthly consumption expenditure by commodity groups (Pakistan Bureau of Statistics, 2020)

Henceforth, the above discussion indicates that a considerable number of Pakistani Muslim consumers do not adhere to Islamic dietary rules, despite living in a highly collectivist Islamic society that expects them to act in accordance with the norms and values of that society (Bari, 2021; Salman & Siddiqui, 2011). The statistics on the use of non-halal food products demonstrate that a significant number of Pakistanis feel autonomous in their food consumption decisions and do not take societal pressures into account, despite the fact that the use of non-halal food and beverages is widely regarded as a big taboo in Pakistan (Salman & Siddiqui, 2011). However, a large number of Pakistani consumers have been found to consume nonhalal food products due to a lack of awareness and knowledge about Islamic dietary rules (Shahzad, 2016). Nonetheless, Salman and Siddiqui (2011) identified that Pakistani consumers consider religion as a personal matter, and they give much more importance to intrinsic values as compared to extrinsic values when choosing halal or non-halal food products. Thus, consumers with a strong intrinsic motivation to follow religion are conscious about consuming halal only, while the consumption of non-halal food and beverages has been observed among those Pakistani Muslim

consumers who score low on intrinsic motivation to obey religious teachings. Therefore, there is a need to empirically investigate the influence of Pakistani consumers' intrinsic motivation in determining their halal food purchase intention. Although a number of studies are available on the factors determining halal food purchase intention in Pakistan, unfortunately, there is a dearth of empirical research analysing the impact of intrinsic motivation on halal food purchase intention in Pakistan.

The overview of literature reveals that the "Self-Determination Theory (SDT)" presented by Deci and Ryan (1985) is the most popular theory among researchers to understand intrinsic motivation and has been widely used by researchers in various fields to analyse intrinsically motivated behaviours. SDT posits that intrinsic motivation is basically stimulated by the satisfaction of three basic psychological needs: autonomy, competence, and relatedness (Ryan & Deci, 2017). However, past studies on halal food have mostly adopted the "Theory of Reasoned Action (TRA)" or the "Theory of Planned Behaviour (TPB)" as the underpinning theories to understand halal food purchase intention, while the use of SDT to explore the phenomenon of halal food purchase intention is not commonly witnessed (Syed, Shah, & Ahmad, 2021). Therefore, the present study endeavours to unravel the impact of intrinsic motivation on halal food purchase intention by analysing the influence of autonomy, competence, and relatedness on halal food purchase intention.

Furthermore, most of the previous studies deploying TRA or TPB have found attitude as a strong predictor of halal food purchase intention (Afendi, Azizan, & Darami, 2014; Alam & Sayuti, 2011; Astuti & Asih, 2021; Pradana, Huertas-García, & Marimon, 2020; Rahim et al., 2021; Suleman, Sibghatullah, & Azam, 2021; Syed, Ahmad, & Shah, 2022; Vizano, Khamaludin, & Fahlevi, 2021). However, a study performed by Ansawi, Sukoco, and Fanani (2018) in Indonesia on international Muslim students assessed that attitude is not a determinant of purchase intention for the halal food items served in international chain restaurants. Similar results were obtained by Jannat and Islam (2019) in an empirical study conducted on Bangladeshi Muslim consumers. They found that the purchase intention of halal-certified food

products is not affected by the consumer's attitude. The contradictory studies drive the urge to re-examine the role of attitude in determining halal food purchase intention.

Nonetheless, because Pakistan is a Muslim country, it is widely assumed that all food products available in the country are halal and Shariah-compliant (Sherwani et al., 2018). However, a few prominent scandals and unethical practices prevailing in the food and beverage industry of Pakistan have put a question mark on the integrity and authenticity of locally produced food products, which are commonly assumed to be halal, safe, and clean, and trusted by Pakistani consumers. Ali et al. (2018) emphasized the need to assess the effect of scandals on consumers' halal food purchase intention and identified an insignificant relationship between attitude and consumers' halal food purchase intention after the Cadbury scandal in Malaysia. Henceforth, they suggest performing an empirical analysis to identify the potential change in consumers' attitude towards halal food, especially in societies that have been prone to halal food scandals in recent years. Although a significant number of studies have demonstrated the positive effect of attitude on halal food purchase intention in Pakistan (Ali & Khushi, 2017; Salman & Siddiqui, 2011; Suleman et al., 2021; Syed et al., 2022), the study conducted by Salman & Siddiqui (2011) was carried out quite a few years before the first prominent halal food scandal in 2016; while Ali & Khushi (2017) studied halal food purchase intention in Pakistan only for non-Muslim consumers. The study conducted by Suleman et al. (2021) was performed during 2019-2020 on Muslim and non-Muslim consumers residing in Pakistan as well as the USA, Canada, Australia, and Germany. Nonetheless, the most recent study by Syed et al. (2022) has witnessed a positive influence of attitude on Pakistani consumers' intention to purchase halal food. Yet the research on Pakistani consumers' intention to purchase halal food after the halal food scandals is too thin on the ground to generalize the positive relationship between attitude and halal food purchase intention. Henceforth, the afore-stated discussion stimulates the need to scrutinize again the role of Pakistani consumers' attitude in shaping their purchase intention for halal food products.

Additionally, Kaiser, Kibbe, and Arnold (2017) suggested that attitude is also a measure of intrinsic motivation; hence, it becomes more viable to include attitude in the present study, which is basically concerned with the intrinsic factors involved in building up consumers' halal food purchase intention. The present study, therefore, steps ahead to analyse the impact of consumers' attitude on halal food purchase intention in Pakistan.

Besides, rapid growth in purchasing power parity and the adulteration of domestic food products have generated a dramatic increase in the demand for imported food items in Pakistan (Knoema, 2018; Qureshi & Khan, 2018). A report issued by the Pakistan Bureau of Statistics (2018) demonstrates that food imports are growing at a faster pace than food exports, and imported food items worth \$3.2 billion have been reported for the fiscal year 2017-18. Factors like the advent of modern technological tools, globalization, social media, and education have created awareness among Pakistani consumers, and they are striving to get quality food products that also satisfy Islamic dietary requirements, no matter how much they cost or where they come from (Bukhari, 2018). Moreover, around 17 million people in Pakistan belong to the middle and upper classes, with lavish lifestyles and powerful spending patterns because of their high-income levels, which have resulted in more fastidious and choosy consumers, especially when it comes to the purchase of food items. Hence, consumers belonging to these socio-economic classes have been seen consuming imported food items because of the perception of high quality associated with imported goods. Despite the fact that Pakistan is an agricultural country with the world's fourth largest livestock population, the country imports a massive amount of food products from various countries, totalling Rs. 1.2 trillion during the fiscal years 2020-2021 (Ansari, 2021; Sohaib & Jamil, 2017). When the market is flooded with both local and foreign products, consumers have been observed to differentiate between the products either solely based on their "country of origin" (COO) or in concurrence with other product attributes (Nasution & Rossanty, 2018; Rios, Riquelme, & Abdelaziz, 2014). Henceforth, the massive import of food items by Pakistan from foreign countries emphasizes the need to assess the influence of the image of COO on Pakistani consumers' intention to buy halal food. However, there is a scarcity of research exploring the COO effect on the purchase intention of halal

food products in Pakistan. The present research endeavour, therefore, attempts to analyse the impact of COO on Pakistani consumers' halal food purchase intention.

1.3 Problem Statement

The growing popularity and importance of halal food has urged social scientists to dig more deeply into the determinants and motives of halal food purchase intention. Pakistan, as a larger Muslim-populated country, accounts for a sizable portion of global halal food consumption. However, it has been noted that the empirical studies conducted in Pakistan on halal food are inadequate to properly address the intrinsic motivation involved in making halal food purchase intention. Mazhar, Bajwa, and Collins (2018), in discussing "Halal food chains-concepts and opportunities in Pakistan," pointed out the need for Pakistan to understand and ensure consumer confidence towards halal purchasing as a prerequisite for sustainable halal food trading. Consumers also require halal food to be handled with the utmost safety, cleanliness, and trustworthiness within the food supply chain process. Nonetheless, because Pakistan is a Muslim country, it is widely assumed that all food products available in the country are halal and Shariah-compliant (Sherwani et al., 2018). However, a haram beef scandal struck the country in 2016 (Ali et al., 2018). The authorities revealed that citizens were being fed with meat that failed to fulfil halal requirements, and the slaughtering practices did not adhere to Islamic rules (Shahzad, 2016). In different raids, the Punjab Food Authority (PFA) disposed of thousands of litres of impure, harmful milk and sealed 21 food points because of the use of unhygienic meat, the presence of insects on food items, and the use of dirty oil. Moreover, two trucks carrying hundreds of kilograms of sick and dead chicken were caught by the authorities, resulting in the closure of six meat shops (Hussain, 2020; Punjab Food Authority, 2021). The multiple food scandals involving the safety and veracity of food products have compelled marketing researchers to conduct more research to identify the variables influencing Pakistani customers' decision to purchase food. Nevertheless, this indicates the need for more empirical evidence on customers' perception and knowledge of halal food offerings in the market and their ability to buy them with confidence and pride. Thus, there is a critical need to understand the intrinsic motivation or reasoning related to consumers' autonomy, competence, and relatedness as well as their attitude towards halal food based on those requirements.

Furthermore, during the past few decades, the advancements in technology have turned the world into a global village, and consumers are getting acquainted with products from all around the world through the internet and social media. Consequently, today's markets are loaded with local as well as foreign products, giving consumers a variety of products to choose from. Rising incomes, high purchasing power parity, and domestic food adulteration have accelerated the trend of purchasing imported food items, especially among the middle and upper Pakistani social classes. However, consumers have different images of different countries, which have been observed to influence their intentions to purchase different products (Rios et al., 2014). Schnettler et al. (2008) conducted a study in Chile that highlighted the importance of COO in food choice decisions, especially for beef. Nasution and Rossanty (2018) found a positive effect of COO on the purchase behaviour of imported frozen food items. In addition, they examined whether COO acts as a moderating variable between the halal label and the purchase behaviour of foreign food products. While the earlier halal food studies have embodied moderating variables such as "education level" (Wibowo et al., 2021), "halal awareness" (Vizano et al., 2021), "religiosity" (Gunawan & Gaffar, 2021), and "religious involvement" (Pradana et al., 2020), the role of COO as a moderator for halal food purchase intention has been sporadically discussed. Henceforth, it becomes vital to integrate COO as a moderating variable into the present research to analyse the role of COO in shaping the halal food purchase intention of Pakistani consumers. In addition, despite the studies providing evidence of the relationship between three basic psychological needs as well as attitude and halal food purchase intention, there are contradictory studies that show either no association or a weak association of autonomy, competence, relatedness, and attitude with purchase intention. As a result, including COO as a moderating variable may help to explain inconsistencies in previous studies.

In a nutshell, the above discussion leads to the notion that intrinsic motivation has been inadequately investigated in previous studies focusing on halal food purchase intention. Thus, there is a dire need to explore the intrinsic motivational factors influencing halal food purchase intention. Hence, the present study proposes a framework stemming from SDT to analyse the impact of autonomy, competence, and relatedness on halal food purchase intention, as these are the basic pillars of intrinsic motivation. Moreover, the assessment of consumers' attitude towards halal food becomes vital in a society that has witnessed numerous halal food scandals. In addition, the review of past literature reveals the scarcity of halal food studies measuring the role of COO as a moderator, thereby elaborating the need for further validation of the phenomenon. Hence, the study attempts to bridge the gap in the previous literature by analysing the moderating role of COO on the relationship between autonomy, competence, relatedness, attitude, and halal food purchase intention.

1.4 Research Questions

In an attempt to address the aforementioned gaps, the present study seeks to answer the following research questions:

- RQ 1: To what extent do intrinsic motivational factors (consumers' autonomy, consumers' competence, and consumers' relatedness) affect consumers' purchase intention of halal food products?
- RQ 2: To what extent does consumers' attitude affect their purchase intention of halal food products?
- RQ 3: To what extent does country of origin moderate the relationship between intrinsic motivational factors (consumers' autonomy, consumers' competence, and consumers' relatedness) and consumers' purchase intention of halal food products?
- RQ 4: To what extent does country of origin moderate the relationship between consumers' attitude and their purchase intention of halal food products?

1.5 Research Objectives

Based on the previous discussion, the objectives of the study are stated as follows:

- RO 1: To examine the impact of intrinsic motivational factors (consumers' autonomy, consumers' competence, and consumers' relatedness) on consumers' purchase intention of halal food products.
- RO 2: To investigate the effect of consumers' attitude on their purchase intention of halal food products.
- RO 3: To measure the moderating impact of country of origin on the relationship between intrinsic motivational factors (consumers' autonomy, consumers' competence, and consumers' relatedness) and consumers' purchase intention of halal food products.
- RO 4: To measure the moderating impact of country of origin on the relationship between consumers' attitude and their purchase intention of halal food products.

1.6 Research Significance

Despite the abundantly available halal food literature, there are still theoretical and practical gaps that are intended to be partially filled by the framework presented by this study. The following discussion highlights the significance of this study in filling these gaps:

Theoretically, this research will contribute to the body of already existing knowledge by employing SDT to understand the role of intrinsic motivation in determining consumers' purchase intention for halal food products. SDT emphasizes the satisfaction of basic psychological needs of autonomy, competence, and relatedness for the enhancement of intrinsic motivation. The majority of the previous studies regarding halal food purchase intention have used TRA or TPB, while SDT has rarely been employed in the past to analyse halal food purchase intention. Hence, to the best of the researcher's knowledge, the role of all the basic intrinsic

psychological needs of autonomy, competence, and relatedness in shaping consumers' halal food purchase intention will be examined for the first time in this study.

Secondly, this study will add to the literature on the effect of attitude on halal food purchase intention, which is especially important in a society that has been plagued by food scandals. Because very few studies have been conducted in the aftermath of the recent adulteration of halal food and beverages in Pakistan, this research endeavor will be useful in empirically determining whether Pakistani people still have a positive attitude towards purchasing halal food, even after the scandals highlighted in the media. Furthermore, there is a scarcity of research on the impact of COO on consumer halal food purchase intention; this study aims to analyse the moderating impact of COO on the relationship between intrinsic motivational factors, consumer attitude, and halal food purchase intention. Nevertheless, the study will demonstrate whether the products originating from Muslim countries enhance the intrinsic motivation of consumers and generate positive feelings towards buying halal food or not.

Moreover, this research will have a practical contribution in terms of being carried out in a Pakistani context. Although Pakistan is the second-biggest Muslim country, with most people consuming only halal food, studies regarding the halal food purchase intention of Pakistani consumers are very scarce. Being Muslims brought up in a highly collectivist Islamic society, it is expected that Pakistani consumers are intrinsically motivated to purchase halal food products. However, significant empirical evidence is scant in previous halal food studies conducted in Pakistan, which highlight the impact of consumers' autonomy, competence, and relatedness on halal food purchase intention. Henceforth, the results of the study will be quite insightful for marketers, as well as halal food organizations and traders, in planning their advertising, marketing, and retail strategies. The study will provide a learning paradigm for academicians and practitioners and will clarify the picture of whether halal food marketing strategies should be based on intrinsic or extrinsic motives.

Nevertheless, Pakistan is a lucrative emerging market for imported halal foods, so conducting this study in Pakistan is expected to be highly beneficial for the organizations to develop strategies according to Pakistani consumers' perceptions about halal food and COO. In addition, despite the functioning of the Punjab Halal Food Authority (PHFA) and a few private halal certification bodies, the federal halal certification authority, namely the Pakistan Halal Food Authority (PHFA), is still non-functioning. The country lacks a reliable halal food certification system for products, and most of the products available in Pakistani markets do not carry a halal logo and certification. The study's findings will be useful at the macro level for the Pakistani government in launching the PHFA, which will ensure the quality and authenticity of local, imported, and exported halal food products. By exporting authentic and halal-certified food products, the country may eventually capture a sizable share of the halal food market.

1.7 Research Scope

The demarcations of the study are discussed in the research scope. Simon and Goes (2011) defined the scope of study as the theoretical, methodological, and geographical elements that will be explored by the study. The underlying discussion elaborates on the delimitations of the present study.

The current research endeavor focuses mainly on the role of intrinsic motivational factors in shaping consumers' purchase intention for halal food products. The impact of autonomy, competence, relatedness, and attitude on halal food purchase intention has been studied. In addition, the study also measures the moderating impact of COO on halal food purchase intention. Hence, six constructs of interest, namely autonomy, competence, relatedness, attitude, COO, and halal food purchase intention, are considered felicitous to include in the study within the limited time frame allocated to it. However, future researchers are suggested to include other relevant constructs in the study to enhance a better understanding of consumers' halal food purchase intention. Secondly, SDT was the main underpinning theory used in the study, whereas the intrinsic component of TRA, i.e., "attitude," was also

examined in the present study. However, the effect of the other main component of TRA, i.e., "subjective norms," was not analyzed in the present study. Subjective norms are extrinsic in nature (Leavell, 2017), and they overlap with social attitudes in collectivist cultures (Park, 2000; Riemer et al., 2014). Since the present research focuses mainly on the intrinsic motivation of consumers belonging to the highly collectivist society of Pakistan, it was considered appropriate to include only "attitude" in the study.

Lastly, the samples have been collected from consumers in Karachi, Lahore, and Islamabad as these are the big cities in Pakistan with a number of hypermarkets and superstores. In addition, the consumers in these cities have high purchasing power, are more educated, and are avid users of modern technological internet platforms. Hence, they are perceived to be more conscious and aware of the quality of the products they use. Although the findings may not be generalizable to other cities in the country because they are smaller and have fewer facilities, the current research endeavour serves as a guide for organizations and future researchers to conduct similar studies in different geographical regions of Pakistan as well as in different cultural settings.

1.8 Operational Definition of Terms

The following terms will be used in the study to discuss the findings and interpret the variables:

Intrinsic motivational factors: Intrinsic motivational factors urge the individuals to carry out activities without any external pressure, which are naturally enjoyable for them and lead to their innate satisfaction (Ryan & Deci, 2000, 2017). In the context of this study, intrinsic motivational factors pertain to the factors which trigger consumers to purchase halal food products without any external constraints, resulting in their satisfaction.

Basic psychological needs: The basic psychological needs of human beings build the basic foundation of intrinsic motivation and are built into their nature. Self-determination Theory (SDT) proposes that these needs are the individuals' inborn needs for autonomy, competence, and relatedness, and hold the utmost importance for their growth and well-being (Deci & Ryan, 1985, 2019). In the context of this study, these psychological needs relate to the innate needs of autonomy, competence, and relatedness of consumers to purchase halal food products. These three basic psychological needs are explained below:

Autonomy: Autonomy is defined as the ability to administer one's own behaviour. However, autonomy may not be mingled with independence; it is rather doing some activity with one's own will (Ryan & Connell, 1989; Ryan & Deci, 2017; Sheikholeslami & Arab-Moghaddam, 2010). In this study, autonomy refers to the perception of consumers towards their freedom to buy halal food products.

Competence: Competence is defined as having knowledge of the environment and thus developing a feeling of confidence and pride (Legault, 2017b; Ryan & Deci, 2017; Ryan & Powelson, 1991; White, 1960). In the context of this study, competence depicts the perception of consumers' knowledge of halal food offerings in the market and their ability to buy them with confidence and pride.

Relatedness: Relatedness refers to the inherent need for closeness and bonding with other human beings (Ryan & Deci, 2017). Relatedness is considered necessary for the transmission of cultural values and beliefs (Ryan & Deci, 2001, 2014). In this study, relatedness illustrates the halal food consumers' strong bond with other individuals who are also consuming halal food.

Attitude: Attitude is described as the positive or negative assessment of an individual towards performing an activity (Ajzen, 1991). In this study, attitude refers to the positive or negative feelings of the consumers for having halal food purchase intention.

Country of Origin: The country of origin (COO) of a product is the country in which it was manufactured (Astuti & Asih, 2021; Cattin, Jolibert, & Lohnes, 1982). In this study, the COO is regarded as the country in which halal food products have been produced, made, or originated from.

Purchase Intention: Purchase intention is defined as the readiness to buy a specific product (Ajzen, 1991; Crosno, Freling, & Skinner, 2009). In this study, halal food purchase intention has been used to measure Pakistani consumers' inclination to purchase halal food products.

1.9 Organization of the Study

The first chapter constitutes the background of the study and sheds light on the halal food industry and the importance of conducting research on the halal food purchase intention of consumers in Pakistan. The need to conduct the present study, in an attempt to fill a gap in previous studies, has been justified in the problem statement. The next section of the chapter comprises research questions and research objectives, research significance, research scope, definition of terms, and thesis organization.

The second chapter starts with a review of literature relevant to the study. The literature starts with studies pertaining to the concept of halal, followed by studies on the impact of the COO on halal food purchase intention. The theoretical foundation of the study was then discussed by studying TRA and SDT. The literature review regarding the variables, namely, autonomy, competence, relatedness, attitude, COO, and halal food purchase intention has been studied, which has led to the formulation of hypotheses and finally a conceptual framework.

The third chapter is about the methodology used in the research and starts with a discussion of the research paradigm and research approach. A positivist paradigm and a quantitative research approach have been used to carry out the present study. The next section discusses the research design, which describes the

purpose of study, type of investigation, researcher's interference, study setting, unit of analysis, and time horizon. The discussion is then followed by the sample design, which comprises the population, sample size, and sampling technique. Finally, the data analysis procedure has been explained with emphasis on the use of structural equation modeling (SEM).

The fourth chapter explains the data analysis and findings of the study. Management of missing values and outliers has been done by using SPSS, while the analysis of the data has been done by using PLS (SEM). The procedure for analysing the data has been discussed in detail in this chapter.

The last chapter finally concludes the research by summarizing the results of the findings and comparing them with already-available literature. Moreover, the significance and non-significance of the findings have been justified in addition to the theoretical and practical contribution of the study. The last section of chapter five sheds light on the limitations of the study and recommendations for future studies. Figure 1.4 depicts the organization of the thesis briefly.

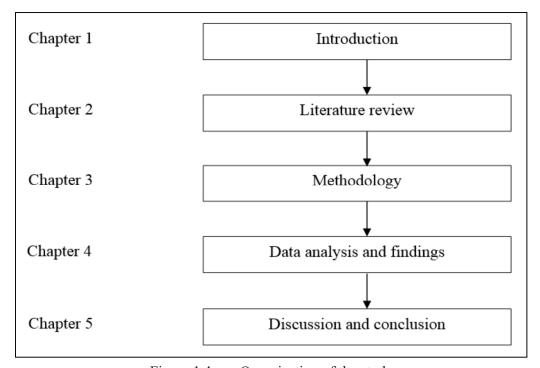


Figure 1.4 Organization of the study

1.10 Summary

The present chapter addresses the background and importance of carrying out research on halal food purchase intention. The chapter provides insights regarding the need to understand the role of intrinsic motivation in determining halal food purchase intention. In addition, this chapter casts light on the theoretical foundation of the study, followed by the formulation of a problem statement that elucidates the research gaps being addressed in the study. Subsequently, the research questions and objectives have been outlined. Furthermore, the study's theoretical and practical contributions have been presented in the significance of the study, and the study's limitations have been discussed. Finally, the variables are defined, followed by thesis outline.

REFERENCES

- Aaker, J., Vohs, K. D., & Mogilner, C. (2010). Non-profits are seen as warm and forprofits as competent: First stereotypes matter. *Journal of Consumer Research*, 37, 277–291.
- Abdullah, F., Borilova, G., & Steinhauserova, I. (2019). Halal criteria versus conventional slaughter technology. *Animals: An open access journal from MDPI*, 9(8), 530.
- Abdullahi, N. M., Huo, X., Shahriar, S., Kea, S., Abdullahi, A. M., & Abubakar, M. I. (2020). Determinants of household beef purchase intention: An application of the extended theory of planned behavior. *International Journal of Business Management and Economic Research (IJBMER)*, 11(2), 1724-1734.
- Abedniya, A. Z. M. N. (2011). The impact of country of origin and ethnocentrism as major dimensions in consumer purchasing behaviour in the fashion industry. European Journal of Economics, Finance and Administrative Sciences, 21(4), 22-41.
- Abu-Hussin, M. F., Johari, F., Hehsan, A., Saiful, M., & Nawawi, A. B. M. (2017). Halal purchase intention among the Singaporean Muslim minority. *Journal of Food Products Marketing*, 23(7), 769-782.
- Abutabenjeh, S., & Jaradat, R. (2018). Clarification of research design, research methods, and research methodology: A guide for public administration researchers and practitioners. *Teaching Public Administration*, 36(3), 237-258.
- Afendi, N. A., Azizan, F. L., & Darami, A. I. (2014). Determinants of halal purchase intention: Case in Perlis. *International Journal of Business and Social Research*, 4(5), 118–123.
- Agich, G. J. (1994). Key Concepts: Autonomy. *Philosophy, Psychiatry, & Psychology, 1*(4), 267-269.
- Ahmed, A. (2008). Marketing of halal meat in the United Kingdom: supermarkets versus local shops. *British Food Journal*, 110(7), 655-670.
- Ahmed, W., Najmi, A., Faizan, H. M., & Ahmed, S. (2019). Consumer behaviour towards willingness to pay for halal products: An assessment of demand for

- halal certification in a Muslim country. *British Food Journal*, 121(2), 492-504.
- Ajzen, I. (1985). From intention to actions: A theory of planned behavior. In J. Kuhl,& J. Beckman (Eds.), *Action control: From cognition to behavior* (pp. 11-39). New York: Springer-Verlag.
- Ajzen, I. (1988). Attitudes, personality, and behavior. Chicago, IL: Dorsey Press.
- Ajzen, I. (1991). The theory of planned behaviour. *Organizational Behavior and Human Decision Processes*, 50(2), 179-221.
- Ajzen, I., & Fishbein, M. (1977). Attitude-behaviour relations: A theoretical analysis and review of empirical research. *Psychological Bulletin*, 84(5), 888-918.
- Ajzen, I., & Fishbein, M. (1980). *Understanding attitudes and predicting social behavior*. Englewood Cliffs, N.J: Prentice-Hall.
- Al Jallad, N. (2008). The concepts of al-halal and al-haram in the Arab-Muslim culture: a translational and lexicographical study. *Language Design*, 10, 77-86.
- Alam, S. S., & Sayuti, N. M. (2011). Applying the theory of planned behaviour (TPB) in halal food purchasing. *International Journal of Commerce and Management*, 21(1), 8-20.
- Alderfer, C. P. (1969). An empirical test of a new theory of human needs. *Organizational Behavior & Human Performance*, 4(2), 142-175.
- Alhazmi, H. K. H. (2013). New Zealand Muslim consumers attitudes towards purchasing halal foods. [Masters' dissertation, Auckland University of Technology].
- Ali, A. (2017). Halal products purchase intention in Pakistan: Evidences from non-Muslim community. *Arabian Journal of Business and Management Review*, 7(4).
- Ali, A., & Khushi, A. (2017). Purchase intention for halal products in Pakistan; Evidences from non-Muslim community. *International Journal for Research in Social Science and Humanities*, 3(12), 65-86.
- Ali, A., Ali, A., Xiaoling, G., Sherwani, M., & Hussain, S. (2017). Expanding the theory of planned behaviour to predict Chinese Muslims halal meat purchase intention. *British Food Journal*, 120(1), 2-17.
- Ali, A., Sherwani, M., Ali, A., Ali, Z., & Sherwani, S. (2020). The moderating role of individualism/collectivism and materialism: An application of the theory

- of planned behavior (TPB) in halal food purchasing. *Journal of Food Products Marketing*.
- Ali, M. H., Ismail, A., Alam, S. S., Makhbul, Z. M., & Omar, N. A. (2018). Exploring the theory of planned behaviour (TPB) in relation to a halal food scandal: the Malaysia Cadbury chocolate case. *International Food Research Journal*, 25(1), 79-86.
- Ali, R., Marzuki, S. Z. S., & Halim, R. A. (2012). The awareness towards halal logo attributes among customers of halal certified restaurants: an exploratory study in Alserhan, B. (Ed.), 2nd Global Islamic Conference, Global Islamic Marketing Association, Abu Dhabi, pp. 307-313.
- Aliyu, A., Bello, U., Kasim, M., Martin, R., & David. (2014). Positivist and non-positivist paradigm in social science research: Conflicting paradigms or perfect partners? *Journal of Management and Sustainability*. 4(3), 79-95.
- Al-Jabari, M. A. R. (2013). Factors influencing online shopping behavior among jordanian academicians. [Doctoral dissertation, Universiti Utara Malaysia].
- Alserhan, A. B. (2010). Islamic branding: a conceptualization of related terms. *Journal of Brand Management*, 18(1), 34-49.
- Al-Sulami, M. (2018, July 27). Muslim World League gives update on halal certification work in Saudi Arabia. *Arab News*. Retrieved 16th February, 2019, from https://www.arabnews.com/node/1346416/saudi-arabia
- Alvi, F. S., Hafeez, M., & Munawar, R. (2014). Consumer culture: An analysis in a socio cultural and political frame. *South Asian Studies*, *29*(1), 99-112.
- Ambali, A. R., & Bakar, A. N. (2014). People's awareness on halal foods and products: Potential issues for policy-makers. *Procedia Social and Behavioral Sciences*, 121, 3-25.
- Amenuvor, F. E., Owusu-Antwi, K., Seong-Chan, B., Shin, S. K. S., & Basilisco, R. (2019). Green purchase behavior: The predictive roles of consumer self-determination, perceived customer effectiveness and perceived price. *International Journal of Scientific Research and Management*, 7(10).
- Andrade, A. M., Coutinho, S. R., Silva, M. N., Mata, J., Vieira, P. N., Minderico, C.
 S., Melanson, K. J., Baptista, F., Sardinha, L. B., & Teixeira, P. J. (2010).
 The effect of physical activity on weight loss is mediated by eating self-regulation. *Patient Education and Counseling*, 79, 320-326.

- André, Q., Carmon, Z., Wertenbroch, K., Crum, A., Frank, D., Goldstein, W., Huber, J., van Boven, L., Weber, B., & Yang, H. (2018). Consumer choice and autonomy in the age of artificial intelligence and big data. *Customer Needs and Solutions*, 5(1-2), 28-37.
- Ansari, I. (2021, June 20). Country's food imports up by 24%. *The Express Tribune*. Retrieved 12th July, 2021 from: https://tribune.com.pk/story/2306305/countrys-food-imports-up-by-24
- Ansawi, N., Sukoco, B. M., & Fanani, M. A. (2018). Halal products consumption in international chain restaurants among global Moslem consumers. *International Journal of Emerging Markets*, 13(5), 1273-1290.
- Arafat, S., Alradie-Mohamed, A., Kar, S. K., Sharma, P., & Kabir, R. (2020). COVID-19 online surveys need to follow standards and guidelines: Comment on "does COVID-19 pandemic affect sexual behavior? A cross-sectional, cross-national online survey" and "binge watching behavior during COVID 19 pandemic: A cross-sectional, cross-national online survey"- authors' reply. *Psychiatry Research*, 291, 113211.
- Arevalo, M., & Brown, L.D. (2019). Using a reasoned action approach to identify determinants of organized exercise among Hispanics: a mixed-methods study. *BMC Public Health*, 19, 1181.
- Asa, R. S. (2019). An overview of the developments of halal certification laws in Malaysia, Singapore, Brunei and Indonesia. *Jurnal Syariah*, 27(1), 173-200.
- Ashraf, M. A. (2019). Islamic marketing and consumer behavior toward halal food purchase in Bangladesh: An analysis using SEM. *Journal of Islamic Marketing*, 10(3), 893-910.
- Astuti, Y., & Asih, D. (2021). Country of origin, religiosity and halal awareness: A case study of purchase intention of Korean food. *Journal of Asian Finance, Economics and Business*, 8(4), 413-421.
- Atkinson, J. W. (1964). An introduction to motivation. Princeton, NJ: Van Nostrand.
- Awan, H. M., Siddiquei, A. N., & Haider, Z. (2015). Factors affecting halal purchase intention evidence from Pakistan's halal food sector. *Management Research Review*, 38(6), 640-660.
- Awang, Z., Afthanorhan, A., Mohamad, M. & Asri, I. (2015). An evaluation of measurement model for medical tourism research: the confirmatory factor analysis approach. *International Journal of Tourism Policy*, 6(1), 29-45.

- Azam, A. (2016). An empirical study on non-Muslim's packaged halal food manufacturers: Saudi Arabian consumers' purchase intention. *Journal of Islamic Marketing*, 7(4), 441-460.
- Aziz, Y. A., & Chok, N. V. (2013). The role of halal awareness, halal certification, and marketing components in determining halal purchase intention among non-Muslims in Malaysia: A structural equation modeling approach. *Journal of International Food & Agribusiness Marketing*, 25(1), 1-23.
- Babbie, E. (1990). Survey research methods. Wadsworth Publishing, Belmont, California.
- Bari, M. (2021, April 22). Pakistan's alcohol prices surge during coronavirus pandemic. *DW*. Retrieved 23rd May, 2021, from https://www.dw.com/en/pakistans-alcohol-prices-surge-during-coronavirus-pandemic/a-57286530
- Bartlett, J. E., Kotrlik, J. W., & Higgins, C. C. (2001). Organizational research: Determining organizational research: Determining appropriate sample size in survey research appropriate sample size in survey research. *Information Technology, Learning, and Performance Journal*, 9(1), 43-50.
- Bashir, A. M., Bayat, A., Olutuase, S. O., & Latiff, Z. A. A. (2018). Factors affecting consumers' intention towards purchasing halal food in South Africa: A structural equation modeling. *Journal of Food Products Marketing*, 25(1), 26-48.
- Bashir, R., Lodhi, R. N., & Mahmood, Z. (2017). Factors influencing the purchase intensions of young females of Pakistan. *Paradigms*, 11(2).
- Baumeister, R. F., & Leary, M. R. (1995). The need to belong: Desire for interpersonal attachments as a fundamental human motivation. *Psychological Bulletin*, 117(3), 497–529.
- Bem, D. J. (1970). Beliefs, attitudes, and human affairs. Belmont, CA: Brooks/Cole.
- Berbel-Pineda, J. M., Ramírez-Hurtado, J. M., Palacios-Florencio, B., & Santos-Roldán, L. (2020). Dataset for analyzing the influence of country of origin, gastronomic culture and products evaluation on consumers' shopping intentions. *Data Brief*, 33(5).
- Berg, L. (2007). Competent consumers? Consumer competence profiles in Norway. International IJC, 31(4).

- Billah, A., Rahman, M. A., & Hossain, M. T. B. (2020). Factors influencing Muslim and non-Muslim consumers' consumption behavior: A case study on halal food. *Journal of Foodservice Business Research*, 23(4).
- Blackwell, R. D., Miniard, P. W., & Engel, J. F. (2017). *Consumer behavior* (10th ed.). Thomson South-Western.
- Board of Investment (2020). *Food processing*. Retrieved 5th August, 2020, from https://invest.gov.pk/food-processing
- Bonne, K., Vermeir, I., Bergeaud-Blackler, F., & Verbeke, W., (2007). Determinants of halal meat consumption in France. *British Food Journal*, 109(5), 367-386.
- Borzooei, M., & Asgari, M. (2015). Country-of-origin effect on consumer purchase intention of halal brands. *American Journal of Marketing Research*. *1*(1), 1-10.
- Brouwer, S., Krol, B., Reneman, M. F., Bultmann, U., R. L. Franche, R. L., van der Klink, J. J. L., & Groothoff, J. W. (2009). Behavioral determinants as predictors of return to work after long-term sickness absence: An application of the theory planned behaviour. *Journal of Occupational Rehabilitation*, 19(2), 166–174.
- Bukhari, S. F. H. (2018). Purchase behaviour of western imported foods by Pakistani buyers. *Journal of Contemporary Islamic Research*, *I*(1), 1-14.
- Bukhari, S. F. H., Woodside, F. M., Hassan, R., Hussain, S., & Khurram, S. (2022). Exploring the motives behind the purchase of western imported food products. A phenomenological study from a Muslim-dominated region. *Journal of Islamic Marketing*, 13(2), 481-507.
- Byrne, B. M. (2013). Structural equation modeling with AMOS: Basic concepts, applications, and programming. Routledge.
- Calder, B. J., Phillips, L. W., & Tybout, A. M. (1981). Designing research for application. *Journal of Consumer Research*, 8, 197-207.
- Carneiro, J., & Faria, F. (2016). Quest for purposefully designed conceptualization of the country-of-origin image construct. *Journal of Business Research*, 69(10), 4411-4420.
- Cattin, P., A. Jolibert, & C. Lohnes. (1982). A cross cultural study of made in concepts. *Journal of International Business Studies*, 13(1), 131–141.

- Cavana, R. Y., Delahaye, B. L., & Sekaran, U. (2001). *Applied business research:*Qualitative and quantitative methods (1st ed.). US & Australia: John Wiley & Sons Australia, Ltd.
- Cerasoli, C. P., Nicklin, J. M., & Nassrelgrgawi, A. S. (2016). Performance, incentives, and needs for autonomy, competence, and relatedness: A meta-analysis. *Motivation and Emotion*, 40(6), 781-813.
- Chatzisarantis, N. L. D., Biddle, S. J. H., & Meek, G. A. (1997). A self-determination theory approach to the study of intentions and the intention–behaviour relationship in children's physical activity. *British Journal of Health Psychology*, 2, 343–360.
- Chen, B., Vansteenkiste, M., Beyers, W., Boone, L., Deci, E. L., der Kaap-Deeder, J. V., Duriez, B., Lens, W., Matos, L., Mouratidis, A., Ryan, R. M., Sheldon, K. M., Soenens, B., Van Petegem, S., & Verstuyf, J. (2015). Basic psychological need satisfaction, need frustration, and need strength across four cultures. *Motivation and Emotion*, 39(2), 216-236.
- Chen, C., Elliot, A. J., & Sheldon, K. M. (2019): Psychological need support as a predictor of intrinsic and external motivation: the mediational role of achievement goals. *Educational Psychology*, 39(4), 1-24.
- Chen, M. (2009). Attitude toward organic foods among Taiwanese as related to health consciousness, environmental attitudes, and the mediating effects of a healthy lifestyle. *British Food Journal*, 111(2), 165-178.
- Chen, X., Kassas, B., & Gao, Z. (2021). Impulsive purchasing in grocery shopping:

 Do the shopping companions matter? *Journal of Retailing and Consumer Services*, 60.
- Chin, W. W. (1998). The partial least squares approach to structural equation modeling. In: G. A. Marcoulides (Ed.), *Modern Methods for Business Research* (pp. 295–358). Mahwah, NJ: Lawrence Erlbaum Associates.
- Chin, W. W. (2010). How to write up and report PLS analyses. *Handbook of partial least squares* (pp. 655-690): Springer.
- Cho, W. (2017). Digital transformation: Challenges and opportunities: 16th workshop on e-business, WeB 2017, Seoul, South Korea, December 10, 2017, Revised Selected Papers.
- Christiansen, B. (2014). *Handbook of research on effective marketing in contemporary globalism*. (1st ed.). IGI Global.

- Clark, V. L. P., & Cresswell, J. W. (2015). *Understanding research: A consumer's guide* (2nd ed.). Boston: Pearson Education.
- Cohen, J. (1988). Statistical power analysis for the behavioral sciences (2nd ed.). Mahwah: Lawrence Erlbaum Associates.
- Cohen, J. (1992). Quantitative methods in psychology: A power primer. *Psychological Bulletin*, 112(1), 155-159.
- Cohen, J., Cohen, P., West, S. G., & Aiken, L. S. (2003). *Applied multiple regression/correlation analysis for the behavioral sciences*. New Jersey, USA: Lawrence Erlbaum Associates.
- Cohen, J., Fishbein, M., & Ahtola, O. T. (1972). The nature and uses of expectancy-value models in consumer attitude research. *Journal of Marketing Research*, 9, in press.
- Comte, A. (1856). A general view of positivism. London: Smith Elder & Co.
- Country meters (2022). *Religion in Pakistan*. Retrieved from https://countrymeters.info/en/Pakistan
- Cresswell, J. W., & Cresswell, J. D. (2018). Research design: Qualitative, quantitative, and mixed methods approaches (5th ed.). Thousand Oaks, United States: SAGE Publications Inc.
- Creswell, J. W. (2014). Research design: Qualitative, quantitative and mixed methods approaches (4th ed.). Thousand Oaks, United States: SAGE Publications Inc.
- Creswell, J. W. (2015). Educational research: Planning, conducting, and evaluating quantitative and qualitative research (5th ed.). Boston, MA: Pearson.
- Crites, S. L., Fabrigar, L. R., & Petty, R. E. (1994). Measuring the affective and cognitive properties of attitudes: Conceptual and methodological issues. *Personality and Social Psychology Bulletin*, 20(6), 619–634.
- Crosno, J., Freling, T. H., & Skinner, S. J. (2009). Does brand social power mean might? Exploring the influence of brand social power on brand evaluation. *Journal of Psychology and Marketing*, 26(2), 91-121.
- Cunningham, J. B., & McCrum-Gardner, E. (2007). Power, effect and sample size using GPower: practical issues for researchers and members of research ethics committees. *Evidence Based Midwifery*, *5*(4), 132-136.
- Darwin, C. R. (1872). *The expression of the emotions in man and animals*. London, England: John Murray.

- Dawson, J. F. (2014). Moderation in management research: What, why, when, and how. *Journal of Business and Psychology*, 29(1), 1-19.
- Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. New York: Plenum.
- Deci, E. L., & Ryan, R. M. (2008). Self-Determination Theory: A macro theory of human motivation, development, and health. *Canadian Psychological Association*, 49(3), 182-185.
- Deci, E. L., & Ryan, R. M. (2012). Self-determination theory in health care and its relations to motivational interviewing: a few comments. *The International Journal of Behavioral Nutrition and Physical Activity*, 9(24).
- Deci, E. L., & Ryan, R. M. (2014). Autonomy and need satisfaction in close relationships: Relationships motivation theory. In N. Weinstein (Ed.), *Human motivation and interpersonal relationships: Theory, research, and applications* (pp. 53–73). Springer Science + Business Media.
- Deci, E. L., Connell, J. P., & Ryan, R. M. (1989). Self-determination in a work organization. *Journal of Applied Psychology*, 74, 580-590.
- den Broeck, A. V., Vansteenkiste, M., De witte, H., Soenens, B., & Lens, W. (2010). Capturing autonomy, competence, and relatedness at work: Construction and initial validation of the work-related basic need satisfaction scale. *Journal of Occupational and Organizational Psychology*, 83, 981-1002.
- Di Domenico, S. I., & Ryan, R. M. (2017). The emerging neuroscience of intrinsic motivation: A new frontier in Self-Determination research. *Frontiers in Human Neuroscience*, 11, 145.
- Diamant, J. (2019). The countries with the 10 largest Christian populations and the 10 largest Muslim populations. Pew Research Center. Retrieved October 17th, 2020, from: https://www.pewresearch.org/fact-tank/2019/04/01/the-countries-with-the-10-largest-christian-populations-and-the-10-largest-muslim-populations/
- Drotar, D. (2009). Editorial: How to write an effective results and discussion for the journal of pediatric psychology. *Journal of Pediatric Psychology*, *34*(4), 339-343.
- Eagly, A. H., & Chaiken, S. (1993). Process theories of attitude formation and change: The elaboration likelihood and heuristic-systematic models. In A. H.

- Eagly & S. Chaiken (Eds.), *The psychology of attitudes*, 303-350. Orlando, FL: Harcourt Brace.
- Elseidi, R. I. (2018). Determinants of halal purchasing intentions: evidences from UK. *Journal of Islamic Marketing*, 9(1), 167-190.
- Engel, J. F., Kollat, D. T., & Blackwell, R. D. (1968). *Consumer behavior*. New York: Holt, Rinehart, and Winston.
- Evans, J. R., & Mathur, A. (2005). The value of online surveys. *Internet Research*, 15(2), 195-219.
- Expert Market Research (2022). *Market report and forecast 2022 2027*. Retrieved from https://www.expertmarketresearch.com/reports/halal-food-market
- Faul, F., Erdfelder, E., Buchner, A., & Lang, A.-G. (2009). Statistical power analyses using G* Power 3.1: Tests for correlation and regression analyses. *Behavior research methods*, 41(4), 1149-1160.
- Fazio, R. H. (2007). Attitudes as object-evaluation associations of varying strength. *Social Cognition*, 25(5), 603-637.
- Fischer, J. (2012). Branding halal: a photographic essay on global Muslim markets. Anthropology Today, 28(4), 18-21.
- Fishbein, M. (2008). A reasoned action approach to health promotion. *Medical Decision Making: An International Journal of the Society for Medical Decision Making*, 28(6), 834-844.
- Fishbein, M., & Ajzen, I. (1975). *Belief, attitude, intention, and behavior: An introduction to theory and research*. Reading, Mass: Addison-Wesley Pub. Co.
- Flavell, J. H. (1999). Cognitive development: Children's knowledge about the mind. Annual Review of Psychology, 50, 21-45.
- Fornell, C., & Larcker, D. F. (1981). Evaluating structural equation models with unobservable variables and measurement error. *Journal of Marketing Research*, 18, 39-50.
- Fraser, I., & Balcombe, K. (2018). Wrapped in the flag: food choice and country of origin labelling. *Eurochoices*, 17(3), 37-42.
- Fuseini, A., Wotton, S. B., Knowels, T. G., & Hadley, P. J. (2017). Halal meat fraud and safety issues in the UK: a review in the context of the European Union. *Food Ethics*, 1(2), 127-142.

- Gagné, M. (2003). The role of autonomy support and autonomy orientation in prosocial behavior engagement. *Motivation and Emotion*, 27(3), 199-223.
- Gao, W., Liu, Y., Liu, Z., & Li, J. (2018). How does presence influence purchase intention in online shopping markets? An explanation based on selfdetermination theory. *Behaviour & Information Technology*, 37(8), 786-799.
- Gefen, D., Rigdon, E. E., & Straub, D. (2011). An update and extension to SEM guidelines for administrative and social science research. *MIS Quarterly*, 35(2), 3-14.
- Geisser, S. (1975). A predictive approach to the random effect model. *Biometrika*, 61(1), 101-107.
- George, D., & Mallery, P. (2016). *IBM SPSS statistics 23 step by step: a simple guide and reference* (14th ed.). New York: Routledge.
- Gilal, F. G., Zhang, J., Gilal, N. G., & Gilal, R. G. (2018). Integrating self-determined needs into the relationship among product design, willingness-to-pay a premium, and word-of-mouth: A cross-cultural gender-specific study. *Psychology Research and Behavior Management*, 11, 227-241.
- Gilal, F. G., Zhang, J., Paul, J., & Gilal, N. G. (2019). The role of self-determination theory in marketing science: An integrative review and agenda for research. *European Management Journal*, 37(2019), 29-44.
- Gogoi, B. (2013). Study of antecedents of purchase intention and its effect on brand loyalty of private label brand of apparel. *International Journal of Sales & Marketing*, 3(2), 73-86.
- Goodhue, D., Lewis, W., & Thompson, R. L. (2012). Does PLS have advantages for small sample size or non-normal data? *MIS Quarterly*, *36*(3), 981-1001.
- Gorsuch, R. L. (1997). Toward motivational theories of intrinsic religious commitment. In B. Spilka & D. N. McIntosh (Eds.), *The psychology of religion: Theoretical approaches* (pp. 11-22). Boulder, CO, US: Westview Press. (Reprinted in modified form from "*Journal for the Scientific Study of Religion*," 33, 1994, 315-325).
- Guess, C. (2004). Decision making in individualistic and collectivistic cultures.

 Online Readings in Psychology and Culture, 4(1).
- Gunawan, A. I., & Gaffar, V. (2021). Does religiosity affect the intention to purchase halal fast food from non-Muslim countries of origin? *Jurnal Ekonomi dan Bisnis Islam*, 7(1), 87-99.

- Ha-Brookshire, J., & Yoon, S. (2012). Country of origin factors influencing US consumers' perceived price for multinational products. *Journal of Consumer Marketing*, 29(6), 445-454.
- Hagger, M. S., & Chatzisarantis, N. (2009). Integrating the theory of planned behaviour and self-determination theory in health behaviour: a meta-analysis. *Journal of Health and psychology*, 14(2), 275-302.
- Hagger, M. S., Hardcastle, S. J., Chater, A., Mallett, C., & Chatzisarantis, N. L. (2014). Autonomous and controlled motivational regulations for multiple health-related behaviors: between- and within-participants analyses. *Health Psychology and Behavioral Medicine*, 2(1), 565-601.
- Hair, J. F. J., Hult, G. T. M., Ringle, C. M., & Sarstedt, M. (2017). *A primer on partial least squares structural equation modeling (PLS-SEM)* (2nd ed.). Sage, Thousand Oaks, CA.
- Hair, J. F., Hult, G. T. M., Ringle, C. M., Sarstedt, M., Danks, N. P., Ray, S. (2021). An Introduction to Structural Equation Modeling. In: *Partial Least Squares Structural Equation Modeling (PLS-SEM) Using R. Classroom Companion: Business*. Springer, Cham.
- Hair, J. F., Ringle, C. M., & Sarstedt, M. (2011). PLS-SEM: Indeed a silver bullet. *Journal of Marketing Theory and Practice*, 19(2), 139-152.
- Hair, J. F., Risher, J. J., Sarstedt, M., & Ringle, C. M. (2019). When to use and how to report the results of PLS-SEM. *European Business Review*.
- Hair, J. F., Sarstedt, M., Pieper, T. M., & Ringle, C. M. (2012). The use of partial least squares structural equation modeling in strategic management research:
 A review of past practices and recommendations for future applications. *Long Range Planning*, 45(5), 320-340.
- Ham, M., Jeger, M., & Ivkovik, A. F. (2015). The role of subjective norms in forming the intention to purchase green food. *Economic Research*, 28(1), 738-748.
- Hamari, J., & Koivisto, J. (2015). "Working out for likes": An empirical study on social influence in exercise gamification. *Computers in Human Behavior*, 50, 333-347.
- Hamzaoui-Essoussi, L., Merunka, D., & Bartikowski, B. (2011). Brand origin and country of manufacture influences on brand equity and the moderating role of brand typicality. *Journal of Business Research*, 64(9), 973-978.

- Haque, A., Sarwar, A., Yasmin, F., Tarofder, A. K., & Hossain, M. A. (2015). Non-Muslim consumers perception toward purchasing halal food product in Malaysia. *Journal of Islamic Marketing*, 6(1), 133-147.
- Harman, H. H. (1960). *Modern factor analysis*. Chicago, IL. University of Chicago Press.
- Hasan, H. (2016). A study on awareness and perception towards halal foods among Muslim students in Kota Kinabalu, Sabah. *Proceedings of the Australia-Middle East Conference on Business and Social Sciences 2016*, Dubai (in partnership with The Journal of Developing Areas, Tennessee State University, USA.
- Hashmi, H. B. A., Shu, C., Haider, S.W., Khalid, A., & Munir, Y. (2021). Bridging the gap between product design and customer engagement: Role of self-determined need satisfaction. *Sage open*, 11(4).
- Henry, G. T. (1990). Practical Sampling. Newbury Park, CA: Sage, 1990
- Henseler, J., Ringle, C. M., & Sarstedt, M. (2015). A new criterion for assessing discriminant validity in variance-based structural equation modeling. *Journal of the Academy of Marketing Science*, 43(1), 115-135.
- Henseler, J., Ringle, C. M., & Sinkovics, R. R. (2009). The use of partial least squares path modeling in international marketing. *Advances in International Marketing (AIM)*, 20, 277-320.
- Her, Y-W., Shin, H., & Pae, S. (2019). A multigroup SEM analysis of moderating role of task uncertainty on budgetary participation-performance relationship: Evidence from Korea. *Asia Pacific Management Review*, 24(2), 140-153.
- Hertzog, M. A. (2008). Considerations in determining sample size for pilot studies. *Research in Nursing & Health*, *31*(2), 180-91.
- Hofstede, G. (2011). Dimensionalizing cultures: The Hofstede model in context. Online Readings Psychol. Cultu.2.
- Hofstede, G. (1983). Dimensions of national cultures in fifty countries and three regions. In *Expiscations in Cross-cultural psychology*, J.B. Deregowski, S. Dziurawiec, and R.C. Annis, eds., Lisse, Netherlands: Swets & Zeitlinger, 335-355.
- Hogg, M. A., & Vaughan, G. M. (2005). *Social psychology* (4th ed.). London, England: Prentice-Hall.

- Hosseini, Z., Gharghani, Z., G., Mansoori, A., Aghamolaei, T., & Nasrabadi, M. M. (2015). Application of the theory of reasoned action to promoting breakfast consumption. *Medical Journal of the Islamic Republic of Iran*, 29, 289.
- Hovland, C. I. (1951). Changes in attitude through communication. *Journal of Abnormal and Social Psychology*, 46, 424-437.
- Howard, J. A., & Sheth, J. N. (1969). *The theory of buyer behavior*. John Wiley, New York, 12-15.
- Howell, D. G. (2008). The analysis of missing data. In Outhwaite, W., & Turner, S. (Eds), *Handbook of Social Science Methodology*. London: Sage.
- Hox, J., & Bechger, T. (1999). An introduction to structural equation modelling. Family Science Review, 11, 354-373.
- Hsieh, M. H., Pan, S. L., & Setiono, R. (2004). Product-, corporate-, and country-image dimensions and purchase behaviour: A multicountry analysis. *Journal of the Academy of Marketing Science*, 32(3), 251-270.
- Huang, Y. C., Backman, K. F., Backman, S. J., & Chang, L. L. (2016). Exploring the implications of virtual reality technology in tourism marketing: An integrated research framework. The implications of virtual reality technology in tourism marketing. *International Journal of Tourism Research*, 18(2), 116-128.
- Hulin, C., Netemeyer, R., & Cudeck, R. (2001). Can a reliability coefficient be too high? *Journal of Consumer Psychology*, 10(1), 55-58.
- Hulland, J., Baumgartner, H., & Smith, K. M. (2018). Marketing survey research best practices: evidence and recommendations from a review of JAMS articles. *Journal of the Academy of Marketing Science*, 46(1), 92-108.
- Hussain, I., Rahman, S., Zaheer, A., & Saleem, S. (2016). Integrating factors influencing consumers' Halal products purchase: Application of theory of reasoned action. *Journal of International Food & Agribusiness Marketing*, 28(1), 35-38.
- Hussain, S. (2020, February 22). Punjab Food Authority (PFA) discards 4,600-litre tainted milk. *Urdu point*. Retrieved 28th July, 2020, from https://www.urdupoint.com/en/pakistan/punjab-food-authority-pfa-discards-4600-li-844254.html
- Insko, C. A., & Schopler, J. (1967). Triadic consistency: A statement of affective-cognitive-conative consistency. *Psychological Review*, 74, 361-376.

- Iyengar, S. I., & DeVoe, S. E. (2003). Rethinking the value of choice: Considering cultural mediators of intrinsic motivation. In V. Murphy-Berman & J. J. Berman (Eds.), Nebraska Symposium on Motivation: Vol. 49. Cross-cultural differences in perspectives on the self (pp. 129-176). Lincoln & London: University of Nebraska Press.
- Jain, S. (2021). Examining the moderating role of perceived risk and web atmospherics in online luxury purchase intention. J. Fashion Mark. Manage. 10.1108/JFMM-05-2020-0089
- Jalil, N. S. A., Tawde, A. V, Zito, S., Sinclair, M., Fryer, C., Idrus, Z. et al. (2018).
 Attitudes of the public towards halal food and associated animal welfare issues in two countries with predominantly Muslim and non-Muslim populations. *PLoS ONE*, 13(10).
- Jannat, M., & Islam, M. M. (2020). Consumers' purchase intention towards certified Halal foods. *International Journal of Islamic Marketing and Branding*, 4(3/4), 228-248.
- Javed, N., & Khan, M. (2018). *The urban gazette*. The Urban Unit, Government of Pakistan. Retrieved 9th September, 2019, from https://www.urbanunit.gov.pk/Download/publications/Files/9/2021/Urban%2 0Gazette%20Analysis%202018.pdf
- Johnston, R., Jones, K., & Manley, D. (2018). Confounding and collinearity in regression analysis: a cautionary tale and an alternative procedure, illustrated by studies of British voting behaviour. *Qual Quant.*, 52(4), 1957-1976.
- Jordan, J. V. (1991). The relational self: A new perspective for understanding women's development. In: *J. Strauss & G. Goethals* (Eds.), The self: Interdisciplinary approaches (pp. 136-149). Cambridge, MA: Harvard University Press.
- Joshi, A., Kale, S., Chandel, S., & Pal, D. K. (2015). Likert scale: Explored and explained. *British Journal of Applied Science & Technology*, 7(4), 396-403.
- Kabir, S. (2015). Growing Halal meat demand: does Australia miss out a potential trade opportunity? Economic Papers. *A Journal of Applied Economics and Policy*, 3(1/2), 60-75.
- Kadam, P., & Bhalerao, S. (2010). Sample size calculation. *International journal of Ayurveda research*, *I*(1), 55-57.

- Kaiser, F. G., Kibbe, A., & Arnold, O. (2017). Self-determined, enduring, ecologically sustainable ways of life: Attitude as a measure of individuals' intrinsic motivation. In G. Fleury-Bahi, E. Pol, & O. Navarro (Eds.), *Handbook of environmental psychology and quality of life research*, 185-195. Springer International Publishing AG.
- Kamali, M. H. (2010). The halal industry from a shariah perspective. Islam and Civilisational Renewal, 1(4), 595-612.
- Karoui, S., & Khemakhem, R. (2019). Consumer ethnocentrism in developing countries. *European Research on Management and Business Economics*, 25 (2), 63-71.
- Kasser, T., & Ryan, R. M. (1996). Further examining the American dream: differential correlates of intrinsic and extrinsic goals. *Personality & Social Psychology Bulletin*, 22(3), 280-287.
- Katz, D., & Allport, F. H. (1931). Student attitudes. Syracuse, NY: Craftsman Press.
- Khalek, A. A. (2014). Young consumers' attitude towards halal food outlets and JAKIM's halal certification in Malaysia. *Procedia. Social and Behavioral Sciences*, 121(19), 26-34.
- Khalek, A. B. A. (2015). Determinants influencing halal food consumption among generation Y Muslims in Malaysian private universities [Doctoral dissertation, University of Malaya].
- Khalek, A. B. A., & Ismail, S. H. S. (2015). Why are we eating halal-using the theory of planned behaviour in predicting halal food consumption among generation Y in Malaysia. *International Journal of Social Science and Humanity*, 5(7), 608-612.
- Khan, A., Rehan, B., Amin, H., & Tariq, S. (2020). Does religiosity influence Muslim consumer buying behavior? A qualitative study in Pakistan to find out the behavior of consumers for the food products. *International Journal of Business and Management Sciences*, 1(2), 21-43.
- Khan, M. M., Asad, H., & Mehboob, I. (2017). Investigating the consumer behaviour for halal endorsed products: Case of an emerging Muslim market. *Journal of Islamic Marketing*, 8(4), 625-641.
- Kim, E.-Y., & Kim, Y.-K. (2004). Predicting online purchase intentions for clothing products. *European Journal of Marketing*, *38*(7), 883-897.

- Kim, H., & Drolet, A. (2003). Choice and self-expression: A cultural analysis of variety-seeking. *Journal of Personality and Social Psychology*, 85(2), 373-382.
- Kivunja, C., & Kuyini, A. B. (2017). Understanding and applying research paradigms in educational contexts. *International Journal of Higher Education*, 6(5), 26-41.
- Kline, R. B. (2011). *Principles and practice of structural equation modeling*. Guilford Publications Press.
- Knoema (2018). Pakistan Purchasing power parity conversion factor for gross domestic product. Retrieved 15th November, 2018 from https://knoema.com/atlas/Pakistan/topics/Economy/Inflation-and-Prices/Purchasing-power-parity
- Kock, N., & Hadaya, P. (2018). Minimum sample size estimation in PLS-SEM: The inverse square root and gamma-exponential methods. *Information Systems Journal*, 28(1), 227-261.
- Krech, D., & Crutchfield, R. S. (1948). *Theory and problems of social psychology*. New York, NY: McGraw-Hill.
- Kuhn, T. (1962). *The structure of scientific revolutions* (1st Edition). Chicago, IL: University of Chicago Press.
- Lada, S., Tanakinjal, G. H., & Amin, H. (2009). Predicting intention to choose halal products using theory of reasoned action. *International Journal of Islamic and Middle Eastern Finance and Management*, 2(1), 66-76.
- Lam, K. W., Hassan, A., Sulaiman, T., & Kamarudin, N. (2018). Evaluating the face and content validity of an instructional technology competency instrument for university lecturers in Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 8(5), 363-381.
- Latham, B. (2007). Sampling: What Is It? Retrieved 3rd October, 2019, fromhttp://webpages.acs.ttu.edu/rlatham/Coursework/5377%28Quant%29%2 9/Sampling_Methodology_Paper.pdf
- Lather, P. (1986). Research as praxis. *Harvard Educational Review*, 56(3), 257-277.
- Lavrakas, P. J. (2008). *Encyclopedia of survey research methods*. Thousand Oaks, CA: Sage Publications, Inc.
- Le, H. T. P. M., Nguyen, P. V., Dinh, H. P., & Dang, C. N. (2017). Effects of country of origin and product features on customer purchase intention: A

- study of imported powder milk. Academy of Marketing Studies Journal, 21(1), 1-19.
- Leavell, J. P. (2017). Controlling and informational planned behaviour: Self-determination theory and the theory of planned behaviour. *Atlantic Marketing Journal*, 5(3), 81-91.
- Lee, J. K., Lee, B. K., & Lee, W. N. (2013). Country-of-origin fit's effect on consumer product evaluation in cross-border strategic brand alliance. *Journal of Business Research*, 66(3), 354-363.
- Lee, S. H., Siong, K. C., Lee, K. S., & Kim, H. S. (2016). Non-Muslim customers' purchase intention on halal food products in Malaysia. *Culinary Science & Hospitality Research*, 22(1), 108-116.
- Legault, L. (2017a). Self-determination theory. In V. Zeigler-Hill and T. Shackelford (Eds.), *Encyclopedia of Personality and Individual Differences*. New York, NY: Springer.
- Legault, L. (2017b). The need for competence. *Encyclopedia of Personality and Individual Differences*. http://doi.org/10.1007/978-3-319-28099-8 1123-1
- Leigh, R. W. (1984). *Effective Christian ministry (Living studies)*. Tyndale House Publishers, Inc. Carol Stream, IL.
- Leo, C., Bennett, R., & Hartel, C. E. (2005). Cross-cultural differences in consumer decision-making styles. *Cross Cultural Management*, 12(3), 32-61.
- Loosveldt, G., & Beullens, K. (2017). Interviewer effects on non-differentiation and straightlining in the European social survey. *Journal of Official Statistics*, 33(2), 409-426.
- Loroz, P. S., & Braig, B. M. (2015). Consumer attachments to human brands: The "oprah effect". *Psychology and Marketing*, *32*(7), 751-763.
- Lowry, P. B., & Gaskin, J. (2014). Partial Least Squares (PLS) Structural Equation Modeling (SEM) for building and testing Behavioral Causal Theory: When to choose it and how to use it. *IEEE Transactions on Professional Communication*, 57(2), 123-146.
- Lucas, J. W. (2003). Theory-Testing, Generalization, and the Problem of External Validity. *Sociological Theory*, 21(3), 236-253.
- Lynn, M. R. (1986). Determination and quantification of content validity. Nursing Research, 35(6), 382-386.

- Mabbe, E., Soenens, B., De Muynck, G., & Vansteenkiste, M. (2018). The impact of feedback valence and communication style on intrinsic motivation in middle childhood: Experimental evidence and generalization across individual differences. *Journal of Experimental Child Psychology*, 170(2018), 134-160.
- MacCallum, R. C., Widaman, K. F., Zhang, S., & Hong, S. (1999). Sample size in factor analysis. *Psychological Methods*, 4(1), 84-99.
- MacFie, H. (2007). *Consumer-Led Food Product Development*. Woodhead Publishing Series in Food Science, Technology and Nutrition, Elsevier.
- MacKenzie, S. B., & Podsakoff, P. M. (2012). Common Method Bias in Marketing: Causes, Mechanisms, and Procedural Remedies. *Journal of Retailing*, 88(4), 542-555.
- Maison, D., Marchlewska, M., Syarifah, D., Zein, R. A., & Purba, H. P. (2018). Explicit versus implicit "Halal" information: Influence of the Halal label and the country-of-origin information on product perceptions in Indonesia. *Frontiers in psychology*, *9*, 382.
- Mannaa, M. T. (2019). Halal food in the tourist destination and its importance for Muslim travellers. *Current Issues in Tourism*, 23(17), 2195-2206.
- Markets and markets (2019). *Halal Ingredients Market*. Retrieved 2nd November, 2019, from https://www.marketsandmarkets.com/Market-Reports/halal-ingredients-market-141659494.html
- Markus, H. R., & Kitayama, S. (1991). Culture and the self: Implications for cognition, motion, and motivation. *Psychological Review*, *98*, 224-253.
- Markus, H. R., Kitayama, S., & Heiman, R. J. (1996). *Culture and basic psychological principles*. In E. T. Higgins & A. W. Kruglanski (Eds.), Social psychology: Handbook of basic principles (pp. 857-913). New York: Guilford Press.
- Martela, F., & Riekki, T. J. J. (2018). Autonomy, competence, relatedness, and beneficence: A multicultural comparison of the four pathways to meaningful work. *Frontiers in Psychology*, *9*, 1-14.
- Maslow, A. H. (1943). A theory of human motivation. *Psychological Review*, 50 (4), 370–96.
- Masuwai, A., Tajudin, N. M., & Saad, N. S. (2016). Evaluating the face and content validity of a teaching and learning guiding principles. *Malaysian Journal of Society and Space*, 12(3), 11-21.

- Mata, J., Silva, M. N., Vieira, P. N. et al. (2009). Motivational 'spill-over' during weight control: increased self-determination and exercise intrinsic motivation predict eating self-regulation. *Health Psychology*, 28(6), 9-16.
- Mazhar, M. S., Bajwa, B. E., & Collins, R. (2018). Halal food chains-concepts and opportunities in Pakistan. *International Journal of Development Research*, 8(1), 18171-18175.
- McGuire, W. J. (1985). Attitudes and attitude change. In G. Lindzey & E. Aronson (Eds.), *The handbook of social psychology, 2,* 238–241. New York, NY: Random House.
- Memon, M. A., Cheah, J.-H., Ramayah, T., Ting, H., Chuah, F., & Cham, T. H. (2019). Moderation analysis: Issues and guidelines. *Journal of Applied Structural Equation Modeling*, 3(1), 1-11.
- Memon, M., Ting, H., Cheah, J. H., Thurasamy, R., Chuah, F., & Cham, T. H. (2020). Sample Size for Survey Research: Review and Recommendations. *Journal of Applied Structural Equation Modeling*, 4(2), 1-10.
- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A. (2019). Descriptive statistics and normality tests for statistical data. *Annals of Cardiac Anaesthesia*, 22(1), 67-72.
- Mohamad, N., & Backhouse, C. J. (2014). *A framework for the development of Halal food products in Malaysia*. Proceedings of the 2014 International Conference on Industrial Engineering and Operations Management, Bali, Indonesia, 7th-9th January 2014, pp. 693-702.
- Monin, B., & Szczurek, L. M. (2014). Food and culture. In Adam B. Cohen's (Ed.) Culture reexamined: Broadening our understanding of social and evolutionary influences, pp. 155-190. Washington, DC: American Psychological Association.
- Mooi, E. A., & Sarstedt, M. (2011). A concise guide to market research: the process, data, and methods using IBM SPSS Statistics. Heilderberg (DE). Springer.
- Morinez, C., Egorova, K., Grudieva, T., Kube, J., Santos, H., Da Costa, M. S., & Antranikian, G. (2007). High yield of mannosylglycerate production by upshock fermentation and bacterial milking of trehalose-deficient mutant Thermus thermophilus RQ-1. *Applied microbiology and biotechnology*, 75(5), 1039-1045.

- Motloba, P. D. (2018). Understanding of the principle of autonomy. *The South African Dental Journal*, 73(6), 418-420.
- Mucollari, L., & Samokhin, V. (2017). Gamification: The influence of gamification on the consumer purchase intention [Master's thesis, Uppsala University].
- Muhamad, N. S., Sulaiman, S., Adham, K. A., & Said, M. F. (2019). Halal Tourism: Literature synthesis and direction for future research. *Pertanika Journal of Social Sciences and Humanities*, 27(1), 729-745.
- Muhamad, N., Leong, V. S., & Isa, M. N. (2017). Does the country of origin of a halal logo matter? The case of packaged food purchases. *Review of International Business and Strategy*, 27(4), 484-500.
- Mukhtar, A., & Butt, M. M. (2012). Intention to choose halal products: the role of religiosity. *Journal of Islamic Marketing*, 3(2), 108-120.
- Munjal, V. (2014). Country of origin effects on consumer behaviour. *International Journal for Research in Management and Pharmacy*, 3(3), 38-47.
- Nafis, M. C. (2019). The concept of halal and thayyib and its implementation in Indonesia. *Journal of Halal Product and Research*, 2(1), 1-5.
- Nagashima, A. (1970). A comparison of Japanese and US attitudes towards foreign products. *Journal of Marketing*, *34*(1), 68-74.
- Nasution, M. D. T. P., & Rossanty, Y. (2018). Country of origin as a moderator of Halal label and purchase behaviour. *Journal of Business and Retail Management Research*, 12(2), 194-201.
- Nguyen, Q. A., Hens, L., MacAlister, C., Johnson, L., Lebel, B., Tan, S. B., Nguyen, H. M., Nguyen, T. N., & Lebel, L. (2018). Theory of reasoned action as a framework for communicating climate risk: A case study of school children in the Mekong Delta in Vietnam. *Sustainability*, 10.
- Niemiec, C. P., & Ryan, R. M. (2009). Autonomy, competence, and relatedness in the classroom: Applying self-determination theory to educational practice. *School Field*, 7(2), 133-144.
- Noor, N., Don, P. A. K., & Cassidy, J. (2016). Factors affecting halal food purchasing by non-Muslims in a multicultural society: a case study in Singapore. *International Journal of Islamic Marketing and Branding, 1*(4), 366-387.
- Nunally, J. C. (1978). Psychometric Theory. New York: McGraw-Hill.

- Nurrachmi, I., Setiawan, & Saripudin, U. (2020). Motivation for purchasing halal products: The influence of religiosity, trust, and satisfaction. *Humanities & Social Sciences Reviews*, 8(5), 210-218.
- O' Cass, A., & Lim, K. (2001). The influence of brand associations on brand preference and purchase intention: An Asian perspective on brand associations. *Journal of International Consumer Marketing*, 14(2/3), 41-72.
- Pakdel, B. (2013). The historical context of motivation and analysis theories individual motivation. *International Journal of Humanities and Social Science*, 3(18), 240-247.
- Pakistan Bureau of Statistics (2018). *External trade statistics*. Retrieved 17th November, 2018, from http://www.pbs.gov.pk/trade-tables
- Pakistan Bureau of Statistics (2020). *Household Integrated Economic Survey* (*HIES*)2018-19. Retrieved 14th September, 2020 from https://www.pndajk.gov.pk/uploadfiles/downloads/hies_2018-19_writeup.pdf
- Pallant, J. (2013). SPSS Survival Manual (5th Ed.). United Kingdom: McGraw-Hill.
- Park, H. S. (2000). Relationships among attitudes and subjective norms: Testing the theory of reasoned action across cultures. *Journal of Communication Studies*, 51(2), 162-175.
- Parke, C. (2013). Essential first steps to data analysis: Scenario based examples using SPSS. London, England: Sage.
- Pelletier, L. G., Tuson, K. M., Green-Demers, I., Noels, K., & Beaton, A. M. (1998). Why are you doing things for the environment? The motivation toward the environment scale. *Journal of Applied Social Psychology*, 28, 437-468.
- Peng, D. X., & Lai, F. (2012). Using partial least squares in operations management research: A practical guideline and summary of past research. *Journal of Operations Management*, 30(6), 467-480.
- Pew Research Center (2017). Why Muslims are the world's fastest-growing religious group. Retrieved from https://www.pewresearch.org/fact-tank/2017/04/06/why-muslims-are-the-worlds-fastest-growing-religious-group/
- Pfander, A. (1967). *Phenomenology of willing and motivation*. (H._Spiegelberg, Trans.). Evanston, IL: Northwestern University Press.
- Pinker, S. (2002). *The blank slate: The modern denial of human nature*. New York: Viking.

- Podsakoff, P. M., MacKenzie, S. B., Lee, J-Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: A critical review of the literature and recommended remedies. *Journal of applied psychology*, 88(5), 879.
- Pradana, M., Huertas-García, R., & Marimon, F. (2020). Purchase intention of halal food products in Spain: the moderating effect of religious involvement. International Food Research Journal, 27(4), 735-744.
- Punjab Food Authority (2021). PFA discards 32 maunds unhygienic meat, seals 21 food points across Punjab over violations. Retrieved 7th August, 2021, from https://cell.pfa.gop.pk/knowledge-base/pfa-discards-32-maunds-unhygienic-meat-seals-21-food-points-across-punjab-over-violations
- Qureshi, M. S. H., & Khan, R. (2018). Adulteration of milk in Pakistan: Are we drinking milk or milk like liquid? *Journal of Public Health and Nutrition*, 1(3), 81.
- Rachbini, W. (2018). The relationship of attitude, subjective norm, perceived behavioral control on Halal food purchasing behavior in Jakarta. *IOSR Journal of Business and Management (IOSR-JBM)*, 20(1), 28-37.
- Rahim, H., Rasool, M. S. A., Rusli, N. R. L., & Awang, N. (2021). Analyzing attitude of halal food purchasing among Muslim millennial: A Malaysian experience. *International Journal of Academic Research in Business and Social Sciences*, 11(8), 1124-1135.
- Razzaque, M. A., & Chaudhry, S. N. (2013). Religiosity and Muslim consumers' decision-making process in a non-Muslim society. *Journal of Islamic Marketing*, 4(2), 198-217.
- Regmi, P. R., Waithaka, E., Paudyal, A., Simkhada, P., & van Teijlingen, E. (2016). Guide to the design and application of online questionnaire surveys. *Nepal Journal of Epidemiology*, 6(4), 640-644.
- Research and Markets (2022). Global Halal Food Market Report 2022: A \$3,907.7 billion industry by 2027 Flourishing e-commerce industry has facilitated consumers with easy accessibility. Retrieved from https://www.zawya.com/en/wealth/wealth-management/worlds-19bln-muslims-spent-around-2trln-in-2021-sgie-report-uwaeorqa
- Rezvani, S., Dehkordi, G. J., Rahman, M. S., Fouladivandal, F., Eghtebasi, S., & Habibi, M. (2012). A conceptual study on the country of origin effect on consumer purchase intention. *Asian Social Science*, 8(12), 205-215.

- Riemer, H., Shavitt, S., Koo, M., & Markus, H. R. (2014). Preferences don't have to be personal: Expanding attitude theorizing with a cross-cultural perspective. *Psychological Review*, *121*(4), 619-648.
- Ringle, C. M., Wende, S., & Becker, J.-M. (2015). *SmartPLS 3. Bönningstedt: SmartPLS*. Retrieved from http://www.smartpls.com
- Rios, R. E., Riquelme, H. E., & Abdelaziz, Y. (2014). Do halal certification country of origin and brand name familiarity matter?. *Asia Pacific Journal of Marketing and Logistics*, 26(5), 665-686.
- Robson, C., & McCartan, K. (2016). Real World Research. John Wiley & Sons.
- Rodríguez-Ardura, I., & Meseguer-Artola, A. (2020). How to prevent, detect and control common method variance in electronic commerce research. *Journal of Theoretical and Applied Electronic Commerce Research*, 15(2), 1-5.
- Roscoe, J. T. (1975), Fundamental Research Statistics for the Behavioral Sciences (Second ed.). New York: Holt Rinehart and Winston.
- Ryan, R. M., & Connell, J. P. (1989). Perceived locus of causality and internalization: Examining reasons for acting in two domains. *Journal of Personality and Social Psychology*, 57(5), 749-761.
- Ryan, R. M., & Deci, E. L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist*, 55(1), 68-78.
- Ryan, R. M., & Deci, E. L. (2001). On happiness and human potentials: A review of research on hedonic and eudaimonic well-being. *Annual Review of Psychology*, 52, 141-166.
- Ryan, R. M., & Deci, E. L. (2006). Self-regulation and the problem of human autonomy: Does psychology need choice, self-determination, and will? *Journal of Personality*, 74(6), 1557-1585.
- Ryan, R. M., & Deci, E. L. (2017). Self-determination theory: Basic psychological needs in motivation, development, and wellness. New York, NY, US: Guilford Press.
- Ryan, R. M., & Deci, E. L. (2019). Chapter four Brick by Brick: The origins, development, and future of self-determination theory. *Advances in Motivation Science*, 6 (2019), 111-156.

- Ryan, R. M., & Powelson, C. L. (1991). Autonomy and relatedness as fundamental to motivation and education. *Journal of Experimental Education*, 60(1), 49-66.
- Salman, F., & Siddiqui, K. (2011). An exploratory study for measuring consumers' awareness and perceptions towards Halal food in Pakistan. *Interdisciplinary Journal of Contemporary Research in Business*, 3(2), 639-651.
- Saunders, M. N. K., Philip, L., & Adrian, T. (2019). *Research methods for business students* (8th ed.). New York: Pearson.
- Schlegelmilch, B. B., Khan, M. M., & Hair, J. F. (2016). Halal endorsements: stirring controversy or gaining new customers? *International Marketing Review*, 33(1), 156-174.
- Schleifer, A., Esposito, J., & Kalın, I. (2022). *The Muslim 500*. Royal Islamic Strategic Studies Centre, Amman, Jordan. Retrieved from https://themuslim500.com/introduction-2022/
- Schnall, R., Bakken, S., Rojas, M., Travers, J., & Carballo-Dieguez, A. (2015). Health technology as a persuasive tool for treatment, care and management of persons living with HIV. *AIDS and Behavior*, *19*(2), 81–89.
- Schnettler, B., Ruiz, D., Sepulveda, O., & Sepulveda, N. (2008). Importance of the country of origin in food consumption in a developing country. *Food Qual. Prefer*, 19, 372-382.
- Schwandt, T. A. (2001). *Dictionary of qualitative inquiry* (2nd ed.). Thousand Oaks: Sage.
- Schwartz (2012). Choice, freedom, and autonomy. In P. R. Shaver & M. Mikulincer (Eds.), *Meaning, mortality, and choice: The social psychology of existential concerns* (271-288). Washington, DC: American Psychological Association.
- Scotland, J. (2012). Exploring the philosophical underpinnings of research: Relating ontology and epistemology to the methodology and methods of the scientific, interpretive, and critical research paradigms. *English Language Teaching*, 5(9), 9-16.
- Sedlmeier, P. (1999). *Improving Statistical Reasoning: Theoretical Models and Practical Implications*. London, UK: Lawrence Erlbaum Associates.
- Sekaran, U. (2003). Research Methods for Business: A Skill-Building Approach (4th ed.). New York, United States: John Wiley & Sons.

- Sekaran, U. S., & Bougie, R. J. (2019). Research methods for business: A skill building approach (8th ed.). New York, United States: John Wiley & Sons Inc.
- Sengel, T., Karagoz, A., Cetin, G., Dincer, F. I., Ertugral, S. M., & Balık, M. (2015). Tourists' Approach to Local Food. *Procedia Social and Behavioral Sciences*, 195, 429-437.
- Serajuddin, U. et al. (2015). Data deprivation. Another Deprivation to End. *Policy Research Working Paper 7252*. The World Bank.
- Shahzad, K. (2016, May 26). 90% Pakistanis are being fed 'Haram' meat products.

 Daily Pakistan. Retrieved 20th October, 2018, from https://en.dailypakistan.com.pk/viral/majority-of-pakistanis-eating-haram-meat-officials/
- Shariff, S. M., & Lah, N. (2014). Halal certification on chocolate products: a case study. *Procedia Social and Behavioral Sciences*, 121, 104-112.
- Sheeran, P., Norman, P., & Orbell, S. (1999). Evidence that intentions based on attitudes better predict behaviour than intentions based on subjective norms. *European Journal of Social Psychology*, 29(2), 403-406.
- Sheikholeslami, R., & Arab-Moghaddam, N. (2010). Relations of autonomy and adjustment in Iranian college students: a cross-culture study of self-determination theory. *Procedia Social and Behavioral Sciences*, 5, 1831-1835.
- Sherwani, M., Ali, A., Ali, A., & Hussain, S. (2018). Determinants of halal meat consumption in Germany. *Journal of Islamic Marketing*, 9(4), 863-883.
- Shimp, T. A., & Sharma, S. (1987). Consumer ethnocentrism: Construction and validation of the CETSCALE. *Journal of Marketing Research*, 24, 280-9.
- Shipman, D., & Durmus, B. (2017). The effect of culture on food consumption: a case of special religious days in Turkey. *Journal of Food Research*, 6(2), 1163-1179.
- Simanjuntak, M., & Nasiha, F. (2019). Halal food purchase behavior of students from three school levels using theory of planned behavior approach. *GATR Global Journal of Business and Social Science Review*, 7(3), 194-203.
- Simon, M. K., & Goes, J. (2011). *Dissertation and scholarly research: Recipes for success* (3rd ed.). Washington, USA: Dissertation Success LLC.

- Sohaib, M., & Jamil, F. (2017). An insight of meat industry in Pakistan with special reference to Halal meat: A comprehensive review. *Korean Journal for Food Science of Animal Resources*, 37(3), 329-341.
- Soon, J. M., & Wallace, C. (2017). Application of theory of planned behaviour in purchasing intention and consumption of Halal food. *Journal of Nutrition & Food Science*, 47(5), 635-647.
- Stewart, S. M., Bond, M. H., & Chan, W. (2003). Autonomy from parents and psychological adjustment in an interdependent culture. *Psychology & Developing Societies*, 15(1), 31-49.
- Straub, D., Boudreau, M.-C., & Gefen, D. (2004). Validation guidelines for IS positivist research. *The Communications of the Association for Information Systems*, 13(1), 63.
- Suhr, D. D. (2006). Exploratory or confirmatory factor analysis. Cary, CN: SAS Institute Inc.
- Suleman, S., Sibghatullah, A., & Azam, M. (2021). Religiosity, halal food consumption, and physical well-being: An extension of the TPB, *Cogent Business & Management*, 8(1).
- Sweeney, J. C., Soutar, G., & Mazzarol, T. (2014). Self-determination theory and word of mouth about energy-saving behaviors: an online experiment. *Psychology and Marketing*, *31*(9), 698-716.
- Syed, S., Ahmad, F. Sh., & Shah, S. R. H. (2022). The influence of attitude on consumers' autonomy to make halal food purchase intention: An overview of self-determination in a collectivist culture. *International Business Research*, 15(3), 75-84.
- Syed, S., Shah, S. R. H., & Ahmad, F. Sh. (2021). The influence of intrinsic motivational forces on consumers' product purchase intentions. *Journal of Mediterranean Tourism Research*, 1(2), 70-80.
- Syukur, M., & Nimsai, S. (2018). Factors influencing the purchase intention of Halal packaged food in Thailand. *International Journal of Supply Chain Management*, 7(3), 2051-3771.
- Tadajewski, M. (2006). Remembering motivation research: toward an alternative genealogy of interpretive consumer research. *Marketing Theory*, 6(4), 429-466.

- Taljaard, H., & Sonnenberg, N. C. (2019). The influence of motivation, knowledge and social media on female consumers' voluntary simplistic clothing consumption practices in South Africa. *Sustainability*, 11(13), 1-17.
- Tarka, P. (2018). An overview of structural equation modeling: Its beginnings, historical development, usefulness and controversies in the social sciences. *Quality & Quantity: International Journal of Methodology*, 52(1), 313–354.
- Thøgersen, J., Pedersen, S., Paternoga, M., Schwendel, E., & Aschemann-Witzel, J. (2017). How important is country-of-origin for organic food consumers? A review of the literature and suggestions for future research. *British Food Journal*, 119(3), 542-557.
- Thomas, P., & Selimovic, A., (2015). Sharia on a plate? A critical discourse analysis of halal food in two Norwegian newspapers. *Journal of Islamic Marketing*, 6(3), 331-353.
- Thomson, M. (2006). Human brands: Investigating antecedents to consumers' strong attachments to celebrities. *Journal of Marketing*, 70(3), 104-119.
- Tremblay, M. A., Blanchard, C. M., Taylor, S., Pelletier, L. G., & Villeneuve, M. (2009). Work extrinsic and intrinsic motivation scale: Its value for organizational psychology research. *Canadian Journal of Behavioural Science*, 41(4), 213-226.
- Triandis, H. C. (1995). *Individualism and Collectivism*, Westview press, Boulder, CO.
- Tulipa, D., & Muljani, N. (2015). The country of origin and brand image effect on purchase intention of smartphone in Surabaya Indonesia. *Mediterranean Journal of Social Sciences*, 6(5), 64-70.
- Usman, A., Javed, M., & Amjad, A. (2017). Food, city and young lobavores: perceptions of Pakistani urban youth about food choices and healthy eating. *Anthropologist*, 27(1-3), 143-151.
- van Giesen, R. I., Fischer, A. R., van Dijk, H., & van Trijp, H. C. (2015). Affect and cognition in attitude formation toward familiar and unfamiliar attitude objects. *PloS one*, *10*(10).
- Vansteenkiste, M., Smeets, S., Soenens, B., Lens, W., Matos, L., & Deci, E. L. (2010). Autonomous and controlled regulation of performance-approach

- goals: Their relations to perfectionism and educational outcomes. *Motivation and Emotion*, *34*(4), 333-353.
- Vansteenkiste, M., Williams, G. C., & Resnicow, K. (2012). Toward systematic integration between self-determination theory and motivational interviewing as examples of top-down and bottom-up intervention development: autonomy or volition as a fundamental theoretical principle. *The International Journal of Behavioral Nutrition and Physical Activity*, 9(23).
- Vizano, N. A., Khamaludin, K., & Fahlevi, M. (2021). The effect of halal awareness on purchase intention of halal food: A case study in Indonesia. *The Journal of Asian Finance, Economics and Business*, 8(4), 441-453.
- Vlachopoulos, S. P., & Michailidou, S. (2006). Development and initial validation of a measure of autonomy, competence, and relatedness in exercise: the basic psychological needs in exercise scale. *Measurement in Physical Education and Exercise Science*, 10(3), 179-201.
- Waarden, F. van, & Dalen, R. van, (2010). *Hallmarking Halal*, 3rd Biennial Conference of the ECPR Standing Groups on Regulation and Governance, University College Dublin.
- Wahyuni, H., Vanany, I., & Ciptomulyono, U. (2019). Food safety and halal food in the supply chain. Review and bibliometric analysis. *Journal of Industrial Engineering and Management*, 12(2), 373-391.
- Wang, C. K. J., Liu, W. C., Kee, Y. H., & Chian, L. K. (2019). Competence, autonomy, and relatedness in the classroom: understanding students' motivational processes using the self-determination theory. *Heliyon*, 5(7).
- Wan-Hassan, W. M., & Awang, K. W. (2009). Halal food in New Zealand restaurants: An exploratory study. *International Journal of Economics and Management*, 3(2), 385-402.
- Wegner, D. M. (2004). Précis of the illusion of conscious will. *Behavioral and Brain Sciences*, 27(5), 649-659.
- Weinstein, N., Rodriguez, L. M., Knee, C. R., & Kumashiro, M. (2016). Self-determined self-other overlap: Interacting effects on partners' perceptions of support and well-being in close relationships. *Journal of Research in Personality*, 65, 130-139.
- Wertenbroch, K., Schrift, R. Y., Alba, J. W. et al. (2020). Autonomy in consumer choice. *Marketing Letters*, *31*, 429-439.

- White, R. W. (1960). Competence and the psychosexual stages of development. *In M. R. Jones (Ed.), Nebraska symposium on motivation, 8*, 97-141, Lincoln: University of Nebraska Press.
- Wibowo, M. W., Putri, A. L. S., Hanafiah, A., Permana, D., & Ahmad, F. Sh. (2021). How education level polarizes halal food purchase decision of Indonesian millennials. *Journal of Islamic Marketing*, ahead-of-print.
- Widodo, T. (2013). The influence of Muslim consumer's perception toward halal food product on attitude and purchase intention at retail stores. *Inovbiz, 1*(1), 17-20.
- Widyarini, L. A., & Gunawan, S. (2018). Predicting consumer purchase intention on fashion products in online retailer: Integration of self determination theory and theory of planned behavior. *International Journal of Emerging Research in Management & Technology*, 6(9), 7-18.
- Wilkins, S., Butt, M. M., Shams, F., & Perez, A. (2019). The acceptance of halal food in non-Muslim countries: Effects of religious identity, national identification, consumer ethnocentrism and consumer cosmopolitanism. *Journal of Islamic Marketing*, 10(4), 1308-1331.
- Willa, M. D., Betty, J. B., EunSeok, C., & Kevin, H. K. (2011). Testing the theory of reasoned action in explaining sexual behavior among African American young teen girls. *Journal of Pediatric Nursing*, 26(6), 45-54.
- Wilson, J. A. (2014). The halal phenomenon: an extension or a new paradigm? *Social Business*, 4(3), 255-271.
- Wilson, J. A. J., & Liu, J. (2010). Shaping the halal into a brand? *Journal of Islamic Marketing*, 1(2), 107-123.
- Wilson, T. D. (2002). Strangers to ourselves. Cambridge, MA: Belknap Press
- Wold, H. O. A. (1982). Soft modeling: The basic design and some extensions. In: *Joreskog, K. G. and Wold, H. O. A., Eds., Systems under Indirect Observations: Part II*, North-Holland, Amsterdam, 1-54.
- Wood, D. R. (2015). The impact of students' perceived relatedness and competence upon their motivated engagement with learning activities: A self-determination theory perspective. [Doctoral dissertation, University of Birmingham].

- Xie, J., Gao, Z., Swisher, M., & Zhao, X. (2016). Consumers' preferences for fresh broccolis: Interactive effects between country of origin and organic labels. *Agricultural Economics*, 47(2), 181-191.
- Xu, Y., Chen, Z., Peng, M. Y. P., & Anser, M. K. (2020). Enhancing consumer online purchase intention through gamification in China: Perspective of cognitive evaluation theory. *Frontiers in Psychology*, 11, 1-13.
- Yoo, B., Donthu, N., & Lee, S. (2000). An examination of selected marketing mix elements and brand equity. *Journal of the academy of marketing science*, 28(2), 195-211.
- Yunus, M., Syuhada, N., Yusof, R., Nerina, R., & Haslinda, H. (2019). Predicting muslim consumers' purchase intention of previously retracted and recertified halal products. *Journal of Emerging Economies and Islamic Research*, 7(1), 1-10.
- Yunus, N. S. N. M., & Rashid, W. E. W. (2016). The influence of country-of-origin on consumer purchase intention: The mobile phones brand from China. *Procedia Economics and Finance*, *37*, 343-349.
- Yunus, N. S. N. M., Rashid, W. E. W., Ariffin, N. M., & Rashid, N. M. (2014).
 Muslim's purchase intention towards non-Muslim's halal packaged food manufacturer. *Procedia Social and Behavioral Sciences*, 130, 145-154.
- Yusuf, A. H., Shukor, S. A., Salwa, U., & Bustamam, A. (2016). Halal certification vs business growth of food industry in Malaysia. *Journal of Economics, Business and Management*, 4(3), 247-251.
- Zafar, S. (2014, May 03). Remove the ban on alcohol in Pakistan. *The Express Tribune*. Retrieved 2nd April, 2019, from https://tribune.com.pk/article/20607/remove-the-ban-on-alcohol-in-Pakistan
- Zakaria, N. B., Yunos, R. M., Mahmood, C. F. C., Anita, R., & Said, J. (2017). The effect of consumers' interest, information access and spending willingness on halal products trustworthiness. *Asia-Pacific Management Accounting Journal*, 12(2), 183-200.
- Zakaria, Z. (2008). Tapping into the world halal market: some discussions on Malaysian laws and standards. *Shariah Journal*, 16, 603-616.
- Zawya (2022). World's 1.9bln Muslims spent around \$2trln in 2021 State of the Global Islamic Economy report 2022. Retrieved from

- https://www.zawya.com/en/wealth/wealth-management/worlds-19bln-muslims-spent-around-2trln-in-2021-sgie-report-uwaeorqa
- Zhang, Y., Zhang, J., & Li, J. (2018). The effect of intrinsic and extrinsic goals on work performance Prospective and empirical studies on goal content theory. *Personnel Review*, 47(4), 900-912.
- Zikmund, W., Babin, B., Carr, J., & Griffin, M. (2012). *Business research methods*. Ohio, USA: Cengage Learning.
- Zogaj, A., Tscheulin, D. K., & Olk, S. (2020). Benefits of matching consumers' personality: Creating perceived trustworthiness via actual self-congruence and perceived competence via ideal self-congruence. *Psychology and Marketing*, 38(3), 416-430.
- Zulfakar, M. H., Anuar, M. M., & Talib, M. S. Ab. (2014). Conceptual framework on Halal food supply chain integrity enhancement. *Procedia Social and Behavioral Sciences*, 121, 58-67.
- Zwebner, Y., & Schrift, R. Y. (2020). On my own: The aversion to being observed during the preference-construction stage. *Journal of Consumer Research*, 47(4), 475-499.

Appendix A Research Questionnaire

UNIVERSITI TEKNOLOGI MALAYSIA

INTERNATIONAL BUSINESS SCHOOL

This study is being carried out to get an understanding of consumers about their consumption pattern of Halal food purchase habits and the knowledge they have about Halal authenticity of imported food products. Submission of questionnaire indicates your voluntary participation in the survey. It is being assured that the identity of any respondent will not be disclosed at any point, and the information received will be used totally for the purpose of this research which is a part of the thesis for the Doctor of Philosophy (PhD) degree under Universiti Teknologi Malaysia. You are requested to kindly fill up the questionnaire based on your true knowledge and judgment. Your opinion would be highly valuable and helpful. Thank you.

In case of any queries, please feel free to co	ontact:
Sumera Syed	Associate Professor Dr. Fauziah Sh.
International Business School,	Ahmad
Universiti Teknologi Malaysia,	International Business School,
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	Email: fsa@ibs.utm.my

Section A:

Please mark with \checkmark across the best suitable answer.

1.	Do you go for shop	ping to s	supermark	ets / hypermarket	s?
	Yes ()	No ()		
2.	Do you often buy fo	ood item	s from sup	oermarkets / hype	rmarkets?
	Yes ()	No ()		
3.	Do you prefer impo	rted pac	ked food i	tems over the loc	al ones?
	Yes ()	No ()		
4.	Do you prefer fresh	meat fro	om local b	outchers over the	Frozen imported meat?
	Yes ()	No ()		
5.	Do you look for Ha	lal logo	while buy	ing food products	?
	Yes ()	No ()		
6. reside		ng shop	ping fron	n the closest pro	eximity stores of your
	Yes ()	No ()		
7.	Are you willing to the availability of g	_		•	our home depending on hose stores?
	Yes ()	No ()		
8.	Whom do you go fo	or shopp	ing with?		
	Preferably alone (Only with Spouse (With friends (With Family (
9. consu	How frequent do ymption?	ou carr	y out a g	rocery purchase	activity for household
	Once in a week (Twice in a week (*		Once in a month Twice in a month	
10.	How do you go for	shoppin	g?		
i. ii. iii.	Car () Public Transport (Using App hailing 1) rides - U	ber / Care	em ()	

iv. v.		bike () () Please Specify
11. more t		identify your source of knowledge on Halal food. You may choose option. Kindly mark with \checkmark .
	i.	Books ()
	ii.	Magazines ()
	iii.	Newspapers ()
	iv.	Radio/Television ()
	v.	Internet/ Social Media ()
	vi.	Family/ Friends ()
	vii.	Retail stores/ Super stores/ Hypermarkets ()
	viii.	Mosques/ Quran ()
	ix.	Others () Please Specify

Section B:

Kindly use the scale below to show your level of agreement/disagreement against the statements given below in this section. Please circle your answer.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
1	2	3	4	5

The following statements are related to the freedom you have in purchasing Halal food products.

1.	I feel free to choose Halal food products.	1	2	3	4	5
2.	I generally feel free to express my ideas and opinions regarding Halal food products.	1	2	3	4	5
3.	I feel that the Halal food products I consume are highly compatible with my choices and interests.	1	2	3	4	5

4.	I feel very strongly that I have the opportunity to make					
	choices when it comes to purchasing different Halal	1	2	3	4	5
	food products.					

The following statements are related to the knowledge and ability you have for purchasing Halal food products.

1.	I feel confident that I have sufficient knowledge to buy Halal food products.	1	2	3	4	5
2.	I investigate a lot before buying Halal food products.		2	3	4	5
3.	I am capable of recognizing authentic Halal food products being offered in the market.	1	2	3	4	5
4.	I feel that I can manage well my Halal food needs.	1	2	3	4	5

The following statements are related to the influence of emotional bond you have while purchasing Halal food products.

1.	I feel very much at ease with people who consume Halal food products.	1	2	3	4	5
2.	I share a common bond with other people who are consuming Halal food products.	1	2	3	4	5
3.	I feel connected with other people who are consuming Halal food products.	1	2	3	4	5
4.	I can freely socialize with people who consume Halal food products.	1	2	3	4	5
5.	I feel that there are open channels of communication with other people who are consuming Halal food products.	1	2	3	4	5

The following statements are related to the feelings you have while purchasing Halal food products.

1.	I think Halal food is more trustworthy to consume as compared to non-Halal food.	1	2	3	4	5
2.	I think Halal food is clean as compared to non-Halal	1	2	3	4	5

	food.					
3.	I think Halal food is healthy.	1	2	3	4	5
4.	I think Halal food is safe to consume.	1	2	3	4	5

The following statements are related to the purchase of imported Halal food products.

1.	I think Halal food products originating from Muslim countries are of good quality.	1	2	3	4	5
2.	I prefer Halal food products originating from Muslim countries because they have a transparent process of Halal certification.	1	2	3	4	5
3.	I think Halal food products originating from Muslim countries are strictly monitored throughout the whole process of production until they reach warehouse.	1	2	3	4	5

The following statements are related to your intention to buy Halal food products in future.

1.	The probability that I would consider buying Halal food is high.	1	2	3	4	5
2.	I will make sure that the food is labelled Halal before purchasing it.	1	2	3	4	5
3.	I would recommend my family/ friends/ relatives to buy Halal food products only.	1	2	3	4	5

Section C:

Please mark with \checkmark across the box describing you.

1.	Gender	
	Male () Female ()	
4.	Age	
	Below 18 years old ()	18-25 years old (

```
41-50 years old ( )
   26-32 years old (
   33-40 years old (
                                             More than 50 years old ( )
3. Marital status
                                            Divorced ( )
   Married ( )
   Unmarried ( )
                                             Widow ( )
4. City
   Islamabad ( )
   Karachi (
   Lahore (
   Others (
             ) Please Specify .....
5. Religion
                                                      ) Please Specify .....
   Islam ( )
                                             Others (
   Christianity ( )
6. Education Level
   High School (
                                             Masters (
   Intermediate (
                                            PhD (
   Bachelors (
                                            Diploma ( )
7. Occupation
   Student ( )
   Working professional ( )
                                            Housewife ( )
8. Employment status
   Employed ( )
                                             Self-employed ( )
   Unemployed ( )
9. Household Monthly Income
   Less than Rs. 40,000 ( )
                                             Rs. 110,000 - Rs. 134,999 (
   Rs. 40,000 - Rs. 59,999 ( )
                                            Rs. 135,000 - Rs. 160,000 (
   Rs. 60,000 - Rs. 84,999 (
                                             More than Rs. 160,000
   Rs. 85,000 - Rs. 109,999 ( )
10. Family Living Status
   Joint family system (
                                            Individual family system ( )
```

THANK YOU FOR PARTICIPATING IN THE SURVEY.

Appendix B Template Used for Content Validation

QUESTIONNAIRE VALIDATION

Dear Marketer / Prof/Assoc. Prof. / Dr.,

TITLE: AN ORGANISMIC APPROACH TO HALAL FOOD PURCHASE INTENTION WITH COUNTRY OF ORIGIN AS A MODERATOR

I am currently doing the aforementioned research as my PhD thesis. I have prepared a questionnaire using the items adapted from previous studies to measure the construct of interest. The current stage of my research is "content validate" the items to establish whether they matched their operational definition. I would be grateful if you could spare some time to read through the items and assess their content validity.

Please respond to the exercise by indicating $(\ \)$ whether each item is a "Perfect Match", "Moderate Match" or "Poor Match".

I thank you in advance for your time and expertise.

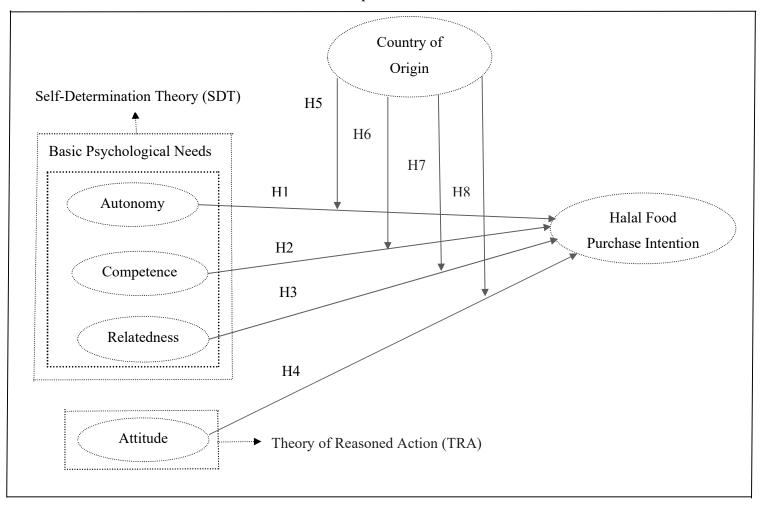
Sumera Syed
(PhD Candidate)
International Business School (IBS)

Kuala Lumpur

Universiti Teknologi Malaysia

Malaysia

The Conceptual Framework



Construct & Operational Definition Autonomy This factor refers to the perception of consumers towards their freedom to buy Halal food products.	1. I feel free to choose Halal food products. 2. I enjoy eatingHalal food. 3. I feel the Halal food products I consume are highly compatible with my choices and interests. 4. I feel very strongly that I have the opportunity to make choices when it comes to purchasing different food products. 5. I generally feel free to express my ideas and opinions while shopping for Halal food products.	1- Strongly Disagree 2- Disagree 3- Somewhat Disagree 4- Neither Agree nor Disagree 5- Somewhat Agree 6- Agree 7- Strongly Agree	Perfect Match (Maintain item as it is)	Moderate Match (Maintain item but needs some refining)	Poor Match (Remove item)	Comment
Competence This factor refers to the perception of consumers' knowledge of Halal food offerings in the market and their	1. I feel confident in my ability to buy good quality Halal food products. 2. I am capable of paying high amount of money to buy good quality Halal food products. 3. I mostly feel a sense of accomplishment when I buy Halal food products.	1- Strongly Disagree 2- Disagree 3- Somewhat Disagree 4- Neither Agree nor Disagree				

ability to buy it with confidence and pride.	4. In my life I do not get much of a chance to show how capable I am while purchasing Halal food products. ® 5. I investigate a lot before buying Halal food products.	5- Somewhat Agree 6- Agree 7- Strongly Agree
Relatedness	1. I feel very much at ease with	1- Strongly
This factor refers	people who consume Halal food	Disagree
to consumers'	products.	2- Disagree
purchase of Halal	2. I feel there are open channels of	3- Somewhat
food products in	communication with other people	Disagree
order to have a	who are consuming Halal food	4- Neither
strong emotional	products.	Agree nor
bond with loved	3. I share a common bond with other	Disagree
ones.	people who are consuming Halal	5- Somewhat
	food products.	Agree
	4. I feel connected with other people	6- Agree
	who are consuming Halal food	7- Strongly
	products.	Agree
Attitude	1. I think Halal food is more	1- Strongly
This factor	trustworthy to consume as compared	Disagree
refers to the	to non-Halal food.	2- Disagree
positive or	2. I think Halal food is clean as	3- Somewhat
negative	compared to non-Halal food.	Disagree
feelings of the	3. I think Halal food is healthy.	4- Neither
consumers for having Halal	4. I think consuming Halal food is	Agree nor Disagree
maving Haidi	important.	Disagree

food purchase	5. I think Halal food is safe to	5- Somewhat		
intention.	consume.	Agree		
		6- Agree		
		7- Strongly		
		Agree		
Country of Origin	1. I think food products originating	1- Strongly		
This factor refers	from Muslim countries are of good	Disagree		
to the country in	quality.	2- Disagree		
which Halal food	2. I prefer Halal food products	3- Somewhat		
products have	originating from Muslim countries	Disagree		
been produced,	because they have a transparent process	4- Neither		
made or	of Halal certification.	Agree nor		
originated from.	3. I think food products originating	Disagree		
	from Muslim countries are strictly	5- Somewhat		
	monitored throughout the whole	Agree		
	process of production until they reach	6- Agree		
	warehouse.	7- Strongly		
	4. I think credibility of Halal logo	Agree		
	depends on country of origin.			
	5. I think non-Muslim countries also			
	regulate Halal food production.			
Purchase	1. I will most probably buy Halal food	1- Strongly		
Intention	products only.	Disagree		
This factor	2. I will make sure that the food is	2- Disagree		
refers to the	Halal before purchasing it.	3- Somewhat		
Muslim	3. I will recommend my friends to buy	Disagree		
consumers'	Halal food products only.	4- Neither		

willingness to	4. I intend to buy imported Halal food	Agree nor		
purchase Halal	products from non- Muslim producers	Disagree		
food products.	also.	5- Somewhat		
	5. I'm motivated to buy Halal food	Agree		
	because my family consumes Halal	6- Agree		
	food only.	7- Strongly		
	6. I will feel safe to buy Halal labelled	Agree		
	products.			

Validator's Signature & Stamp:	Date	

Appendix C Data Analysis for Pilot Study

EFA of Exogenous Variables

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure	.869	
	Approx. Chi-Square	2062.368
Bartlett's Test of Sphericity	df	190
	Sig.	.000

Communalities

	Initial	Extraction
Aut1	1.000	.559
Aut3	1.000	.731
Aut4	1.000	.716
Aut5	1.000	.672
Comp1	1.000	.654
Comp2	1.000	.699
Comp3	1.000	.705
Comp4	1.000	.563
Rel1	1.000	.612
Rel2	1.000	.754
Rel3	1.000	.733
Rel4	1.000	.591
Rel5	1.000	.574
Att1	1.000	.638
Att2	1.000	.769
Att3	1.000	.770
Att4	1.000	.779
COO1	1.000	.720
COO2	1.000	.820
COO3	1.000	.756

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component		Initial Eigenv	alues	Extrac	tion Sums of Sq	uared Loadings	Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of	Cumulative %
								Variance	
1	7.075	35.373	35.373	7.075	35.373	35.373	3.368	16.841	16.841
2	2.691	13.455	48.828	2.691	13.455	48.828	2.916	14.581	31.422
3	1.594	7.969	56.797	1.594	7.969	56.797	2.695	13.477	44.900
4	1.384	6.921	63.718	1.384	6.921	63.718	2.463	12.317	57.217
5	1.073	5.365	69.083	1.073	5.365	69.083	2.373	11.867	69.083
6	.713	3.564	72.647						
7	.635	3.175	75.823						
8	.604	3.021	78.844						
9	.545	2.727	81.571						
10	.532	2.662	84.233						
11	.458	2.288	86.521						
12	.449	2.246	88.767						
13	.395	1.976	90.743						
14	.372	1.861	92.604						
15	.332	1.661	94.265						
16	.287	1.437	95.702						
17	.256	1.282	96.985						
18	.229	1.146	98.131						
19	.205	1.026	99.157						
20	.169	.843	100.000						

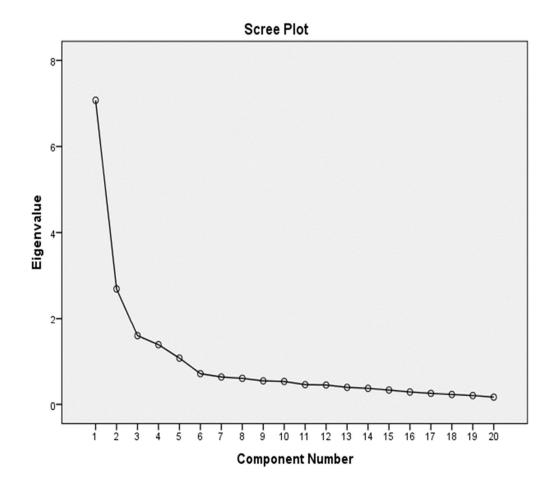
Rotated Component Matrix^a

	Component					
	1	2	3	4	5	
Rel2	.844					
Rel3	.828					
Rel1	.735					
Rel4	.725					
Rel5	.665					
Att4		.804				
Att3		.801				
Att2		.796				
Att1		.699				
Aut3			.825	·		
Aut4			.764			
Aut1			.725			
Aut5			.683			
Comp3				.776		
Comp2				.772		
Comp1				.706		
Comp4				.608		
COO2					.855	
COO3					.821	
COO1					.790	

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 6 iterations.



EFA of Endogenous Variable

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure	.733	
l	Approx. Chi-Square	271.218
Bartlett's Test of Sphericity	df	3
	Sig.	.000

Communalities

	Initial	Extraction
Pur1	1.000	.789
Pur2	1.000	.756
Pur3	1.000	.795

Extraction Method: Principal Component Analysis.

Total Variance Explained

Component	Initial Eigenvalues				Extraction Sums of Squared		
	Loadings			gs			
	Total	Total % of Cumulative %			% of	Cumulative	
		Variance			Variance	%	
1	2.340	77.992	77.992	2.340	77.992	77.992	
2	.361	12.045	90.037				
3	.299	9.963	100.000				

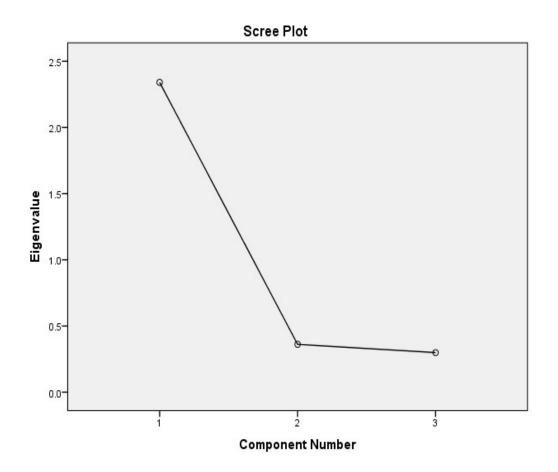
Extraction Method: Principal Component Analysis.

Component Matrix^a

	Component
	1
Pur1	.888
Pur2	.869
Pur3	.892

Extraction Method: Principal Component Analysis.

a. 1 component extracted.



Reliability Analysis (Cronbach's Alpha)

Autonomy

Cronbach's	N of Items
Alpha	
.808	4

Item-Total Statistics

	Scale Mean if Item Deleted		Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Aut1	13.20	5.494	.546	.805
Aut3	13.26	4.746	.703	.722
Aut4	13.04	6.250	.691	.745
Aut5	13.11	6.098	.626	.762

Competence

Cronbach's Alpha	N of Items	
.788	4	

Item-Total Statistics

	Scale Mean if Item Deleted		Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Comp1	12.06	5.258	.637	.719
Comp2	12.63	4.896	.552	.763
Comp3	12.47	4.331	.668	.699
Comp4	11.88	5.818	.566	.756

Relatedness

Cronbach's	N of Items
Alpha	
.855	5

Item-Total Statistics

	Scale Mean if Item Deleted		Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Rel1	17.69	6.699	.633	.837
Rel2	17.77	6.221	.733	.812
Rel3	17.88	5.805	.732	.808
Rel4	17.87	5.772	.668	.827
Rel5	18.02	5.768	.622	.842

Attitude

Cronbach's Alpha	N of Items
.873	4

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Att1	13.72	3.511	.654	.866
Att2	13.76	3.048	.773	.820
Att3	13.66	3.544	.752	.830
Att4	13.65	3.505	.747	.830

Country of origin

Cronbach's Alpha	N of Items
.840	3

Item-Total Statistics

	Scale Mean if Item Deleted		Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
COO1	8.52	2.683	.675	.807
COO2	8.49	2.533	.772	.717
COO3	8.78	2.343	.679	.812

Halal food purchase intention

Cronbach's Alpha	N of Items	
.820	3	

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Pur1	9.28	1.087	.734	.760
Pur2	9.58	.587	.709	.812
Pur3	9.38	.920	.734	.705

Data Distribution

	N	Mean	Std. Deviation	Skew	ness	Kurt	tosis
	Statistic	Statistic	Statistic	Statistic	Std.	Statistic	Std.
	Statistic	Statistic	Statistic	Statistic	Error	Statistic	Error
Aut1	200	4.34	1.082	-1.529	.172	1.260	.342
Aut2	200	4.31	1.114	-1.564	.172	1.404	.342
Aut3	200	4.29	1.100	-1.615	.172	1.827	.342
Aut4	200	4.51	.709	-1.105	.172	162	.342
Comp1	200	4.29	.842	-1.051	.172	.420	.342
Comp2	200	3.71	1.020	253	.172	-1.055	.342
Comp3	200	3.88	1.065	906	.172	.346	.342
Comp4	200	4.47	.750	-1.379	.172	1.435	.342
Rel1	200	4.62	.623	-1.412	.172	.851	.342
Rel2	200	4.54	.671	-1.154	.172	.082	.342
Rel3	200	4.42	.773	-1.164	.172	.549	.342
Rel4	200	4.44	.830	-1.335	.172	.856	.342
Rel5	200	4.28	.870	912	.172	236	.342
Att1	200	4.55	.722	-1.578	.172	1.985	.342
Att2	200	4.50	.789	-1.393	.172	.869	.342
Att3	200	4.60	.649	-1.400	.172	.710	.342
Att4	200	4.61	.663	-1.455	.172	.776	.342
COO1	200	4.38	.841	-1.210	.172	.625	.342
COO2	200	4.41	.827	-1.145	.172	.233	.342
COO3	200	4.12	.957	753	.172	367	.342
Pur1	200	4.84	.368	-1.869	.172	1.508	.342
Pur2	200	4.54	.679	-1.169	.172	.081	.342
Pur3	200	4.74	.462	-1.408	.172	.752	.342
Valid N	200						
(listwise)	200						

Appendix D Descriptive Analysis (Actual Study)

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Male	121	39.9	39.9	39.9
Valid Female	182	60.1	60.1	100.0
Total	303	100.0	100.0	

Age

		Frequency	Percent	Valid Percent	Cumulative Percent
	18-25 years old	92	30.4	30.4	30.4
	26-32 years old	66	21.8	21.8	52.1
	33-39 years old	67	22.1	22.1	74.3
Valid	40-50 years old	52	17.2	17.2	91.4
	More than 50 years old	26	8.6	8.6	100.0
	Total	303	100.0	100.0	

Marital status

	Frequency	Percent	Valid Percent	Cumulative Percent
Married	175	57.8	57.8	57.8
Unmarried	124	40.9	40.9	98.7
Valid Divorced	1	.3	.3	99.0
Widow	3	1.0	1.0	100.0
Total	303	100.0	100.0	

City

		Frequency	Percent	Valid Percent	Cumulative Percent
	Islamabad	74	24.4	24.4	24.4
Valid	Lahore	180	59.4	59.4	83.8
	Karachi	49	16.2	16.2	100.0
	Total	303	100.0	100.0	

Religion

	Frequency	Percent	Valid Percent	Cumulative Percent
Islam	302	99.7	99.7	99.7
Valid Christianity	1	.3	.3	100.0
Total	303	100.0	100.0	

Education

		Frequency	Percent	Valid Percent	Cumulative Percent
	High School	4	1.3	1.3	1.3
	Intermediate	14	4.6	4.6	5.9
	Bachelors	128	42.2	42.2	48.2
Valid	Masters	143	47.2	47.2	95.4
	PhD	12	4.0	4.0	99.3
	Diploma	2	.7	.7	100.0
	Total	303	100.0	100.0	

Occupation

		Frequency	Percent	Valid Percent	Cumulative Percent
	Student	84	27.7	27.7	27.7
Valid	Working professional	154	50.8	50.8	78.5
	Housewife	65	21.5	21.5	100.0
	Total	303	100.0	100.0	

Employment

		Frequency	Percent	Valid Percent	Cumulative Percent
	Employed	132	43.6	43.6	43.6
Valid	Unemployed	129	42.6	42.6	86.1
	Self-employed	42	13.9	13.9	100.0
	Total	303	100.0	100.0	

Income

		Frequency	Percent	Valid Percent	Cumulative Percent
	Less than Rs. 40,000	16	5.3	5.3	5.3
	Rs. 40,000 - Rs. 59,999	42	13.9	13.9	19.1
	Rs. 60,000 - Rs. 84,999	43	14.2	14.2	33.3
Valid	Rs. 85,000 - Rs. 109,999	68	22.4	22.4	55.8
Vallu	Rs. 110,000 - Rs. 134,999	45	14.9	14.9	70.6
	Rs. 135,000 - Rs. 160,000	22	7.3	7.3	77.9
	More than Rs. 160,000	67	22.1	22.1	100.0
	Total	303	100.0	100.0	

Family

		Frequency	Percent	Valid Percent	Cumulative Percent
	Joint family system	119	39.3	39.3	39.3
Valid	Individual family system	184	60.7	60.7	100.0
	Total	303	100.0	100.0	

Members

		Frequency	Percent	Valid Percent	Cumulative Percent
	Less than 3 members	18	5.9	5.9	5.9
Ĭ	3 - 5 members	169	55.8	55.8	61.7
Valid	6 - 9 members	94	31.0	31.0	92.7
	More than 9 members	22	7.3	7.3	100.0
	Total	303	100.0	100.0	

Do you go for shopping to supermarkets / hypermarkets?

		Frequency	Percent	Valid Percent	Cumulative Percent
	yes	289	95.4	95.4	95.4
Valid	no	14	4.6	4.6	100.0
	Total	303	100.0	100.0	

Do you often buy food items from supermarkets / hypermarkets?

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	yes	260	85.8	85.8	85.8
Valid	no	43	14.2	14.2	100.0
	Total	303	100.0	100.0	

Do you prefer imported packed food items over the local ones?

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
	yes	117	38.6	38.6	38.6
Valid	no	186	61.4	61.4	100.0
	Total	303	100.0	100.0	

Do you prefer fresh meat from local butchers over the frozen imported meat?

	Frequency	Percent	Valid Percent	Cumulative
				Percent
yes	275	90.8	90.8	90.8
Valid no	28	9.2	9.2	100.0
Total	303	100.0	100.0	

Do you look for Halal logo while buying food products?

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
	yes	242	79.9	79.9	79.9
Valid	no	61	20.1	20.1	100.0
	Total	303	100.0	100.0	

Do you prefer doing shopping from the closest proximity stores of your residence?

		Frequency	Percent	Valid	Cumulative Percent
				Percent	
	yes	253	83.5	83.5	83.5
Valid	no	50	16.5	16.5	100.0
	Total	303	100.0	100.0	

Are you willing to go the stores located far from your home depending on the availability of good quality Halal food products in those stores?

		Frequency	Percent	Valid Percent	Cumulative Percent
	yes	254	83.8	83.8	83.8
Valid	no	49	16.2	16.2	100.0
	Total	303	100.0	100.0	

Whom do you go for shopping with?

		Frequency	Percent	Valid Percent	Cumulative Percent
	Preferably alone	69	22.8	22.8	22.8
	Only with spouse	58	19.1	19.1	41.9
Valid	With friends	15	5.0	5.0	46.9
	With Family	161	53.1	53.1	100.0
	Total	303	100.0	100.0	

How frequent do you carry out a grocery purchase activity for household consumption?

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	once in a week	72	23.8	23.8	23.8
	twice in a week	28	9.2	9.2	33.0
Valid	once in a month	133	43.9	43.9	76.9
	twice in a month	70	23.1	23.1	100.0
	Total	303	100.0	100.0	

How do you go for shopping?

		Frequency	Percent	Valid Percent	Cumulative Percent
	car	238	78.5	78.5	78.5
	public transport	12	4.0	4.0	82.5
Valid	Using App hailing rides - Uber / Careem	19	6.3	6.3	88.8
	motorbike	34	11.2	11.2	100.0
	Total	303	100.0	100.0	

Halal food knowledge

		Resp	onses	Percent of
		N	Percent	Cases
	Knowledge on Halal food through books.	61	8.0%	20.1%
	Knowledge on Halal food through magazines.	20	2.6%	6.6%
	Knowledge on Halal food through newspapers.	45	5.9%	14.9%
	Knowledge on Halal food through radio/television.	52	6.8%	17.2%
Halalfood knowledge	Knowledge on Halal food through internet/social media.	161	21.0%	53.1%
Kilowicuge	Knowledge on Halal food through family/friends.	172	22.5%	56.8%
	Knowledge on Halal food through retail stores/ super stores/ hypermarkets.	70	9.1%	23.1%
	Knowledge on Halal food through mosques/ Quran.	182	23.8%	60.1%
	Knowledge on Halal food through others.	3	0.4%	1.0%
Total		766	100.0%	252.8%

Descriptive Statistics (Research Instrument)

	N	Mean	Std. Deviation	Skew	ness	Kurte	osis
	Statistic	Statistic	Statistic	Statistic	Std.	Statistic	Std.
					Error		Error
Aut1	303	4.43	.888	-1.525	.140	1.501	.279
Aut3	303	4.19	1.007	-1.011	.140	098	.279
Aut4	303	4.45	.766	-1.241	.140	.739	.279
Aut5	303	4.37	.847	-1.191	.140	.510	.279
Comp1	303	4.37	.710	998	.140	.875	.279
Comp2	303	3.58	.976	163	.140	956	.279
Comp3	303	4.00	.848	486	.140	441	.279
Comp4	303	4.43	.682	921	.140	.166	.279
Rel1	303	4.55	.678	-1.354	.140	.997	.279
Rel2	303	4.48	.731	-1.268	.140	.966	.279
Rel3	303	4.37	.823	-1.093	.140	.293	.279
Rel4	303	4.33	.900	-1.241	.140	.879	.279
Rel5	303	4.17	.964	991	.140	.262	.279
Att1	303	4.51	.788	-1.548	.140	1.563	.279
Att2	303	4.48	.837	-1.490	.140	1.239	.279
Att3	303	4.57	.728	-1.634	.140	1.837	.279
Att4	303	4.61	.672	-1.585	.140	1.604	.279
COO1	303	4.42	.817	-1.303	.140	.931	.279
COO2	303	4.38	.856	-1.190	.140	.441	.279
COO3	303	4.08	.968	725	.140	361	.279
Pur1	303	4.82	.383	-1.690	.140	.862	.279
Pur2	303	4.52	.690	-1.163	.140	.269	.279
Pur3	303	4.72	.473	-1.244	.140	.240	.279
Valid N (listwise)	303						

Appendix E Harman's Single Factor Test (Common Method Variance / bias)

Total Variance Explained

Component	I	nitial Eigenv	alues	Extrac	tion Sums of Loadings	Squared
	Total	% of	Cumulative	Total	% of	Cumulative
		Variance	%		Variance	%
1	8.011	34.828	34.828	8.011	34.828	34.828
2	2.752	11.966	46.794			
3	1.687	7.334	54.129			
4	1.366	5.941	60.069			
5	1.155	5.023	65.092			
6	1.076	4.679	69.772			
7	.730	3.176	72.948			
8	.673	2.924	75.872			
9	.646	2.807	78.679			
10	.590	2.567	81.246			
11	.529	2.301	83.547			
12	.480	2.085	85.632			
13	.460	2.000	87.632			
14	.425	1.847	89.479			
15	.382	1.661	91.141			
16	.356	1.549	92.689			
17	.317	1.378	94.068			
18	.312	1.355	95.422			
19	.266	1.158	96.580			
20	.246	1.068	97.648			
21	.238	1.034	98.682			
22	.178	.774	99.456			
23	.125	.544	100.000			

Extraction Method: Principal Component Analysis.

Appendix F Smart PLS Results (Measurement Model)

Cronbach's Alpha

	Cronbach's Alpha
Autonomy	0.891
Competence	0.829
Relatedness	0.849
Attitude	0.891
Country of origin	0.830
Halal food purchase intention	0.822

Composite Reliability

	Composite Reliability
Autonomy	0.923
Competence	0.886
Relatedness	0.892
Attitude	0.925
Country of origin	0.898
Halal food purchase intention	0.893

Average Variance Extracted (AVE)

	Average Variance Extracted (AVE)
Autonomy	0.749
Competence	0.661
Relatedness	0.622
Attitude	0.754
Country of origin	0.746
Halal food purchase intention	0.736

Outer loadings

	Attitude	Autonomy	Competence	COO	Halal food purchase intention	Relatedness
Att1	0.838					
Att2	0.889					
Att3	0.876					
Att4	0.870					
Aut1		0.842				
Aut3		0.862				
Aut4		0.872				
Aut5		0.887				
Comp1			0.807			
Comp2			0.811			
Comp3			0.856			
Comp4			0.776			
COO1				0.849		
COO2				0.904		
COO3				0.837		
Pur1					0.834	
Pur2					0.872	
Pur3					0.868	
Rel1						0.776
Rel2						0.806
Rel3						0.825
Rel4						0.779
Rel5						0.756

Outer weights

	Attitude	Autonomy	Competence	COO	Halal food purchase intention	Relatedness
Att1	0.285				Intention	
Att2	0.265					
Att3	0.309					
Att4	0.293					
Aut1		0.224				
Aut3		0.241				
Aut4		0.319				
Aut5		0.367				
Comp1			0.300			
Comp2			0.318			
Comp3			0.326			
Comp4			0.284			
COO1				0.387		
COO2				0.420		
COO3				0.349		
Pur1					0.337	
Pur2					0.430	
Pur3					0.396	
Rel1						0.306
Rel2						0.223
Rel3						0.259
Rel4						0.257
Rel5						0.224

Cross loadings

	Attitude	Autonomy	Competence	Country of	Halal food	Relatedness
				origin	purchase	
					intention	
Att1	0.838	0.477	0.263	0.303	0.447	0.395
Att2	0.889	0.577	0.315	0.337	0.416	0.383
Att3	0.876	0.482	0.324	0.344	0.485	0.383
Att4	0.870	0.586	0.316	0.287	0.460	0.366
Aut1	0.514	0.842	0.283	0.137	0.268	0.141
Aut3	0.512	0.862	0.335	0.200	0.288	0.245
Aut4	0.509	0.872	0.380	0.218	0.381	0.322
Aut5	0.568	0.887	0.387	0.261	0.438	0.291
Comp1	0.230	0.293	0.807	0.245	0.316	0.241
Comp2	0.250	0.294	0.811	0.193	0.335	0.253
Comp3	0.312	0.340	0.856	0.335	0.344	0.306
Comp4	0.355	0.405	0.776	0.296	0.300	0.316
COO1	0.344	0.232	0.297	0.849	0.264	0.375
COO2	0.349	0.244	0.282	0.904	0.287	0.377
COO3	0.249	0.149	0.274	0.837	0.238	0.373
	Attitude	Autonomy	Competence	Country of	Halal food	Relatedness
				origin	purchase	

					intention	
Pur1	0.387	0.302	0.282	0.224	0.834	0.311
Pur2	0.481	0.396	0.394	0.279	0.872	0.377
Pur3	0.467	0.353	0.340	0.278	0.868	0.321
Rel1	0.410	0.291	0.231	0.358	0.370	0.776
Rel2	0.357	0.261	0.256	0.328	0.269	0.806
Rel3	0.335	0.195	0.260	0.332	0.312	0.825
Rel4	0.294	0.177	0.253	0.321	0.310	0.779
Rel5	0.326	0.253	0.368	0.367	0.270	0.756

Fornell-Larcker Criterion

	Attitude	Autonomy	Competence	Country of	Halal food purchase	Relatedness
				origin	intention	
Attitude	0.868					
Autonomy	0.610	0.866				
Competence	0.351	0.408	0.813			
Country of origin	0.366	0.244	0.329	0.864		
Halal food	0.522	0.412	0.399	0.306	0.858	
purchase						
intention						
Relatedness	0.440	0.300	0.343	0.433	0.394	0.789

HTMT Criterion

	Attitude	Autonomy	Competence	Country of origin	Halal food purchase intention	Relatedness
Attitude						
Autonomy	0.681					
Competence	0.410	0.467				
Country of origin	0.422	0.27	0.397			
Halal food	0.603	0.458	0.477	0.366		
purchase						
intention						
Relatedness	0.501	0.329	0.415	0.516	0.462	

Appendix G Smart PLS Results (Structural Model)

Inner VIF Values

	Attitude	Autonomy	Competence	COO	Halal food purchase	Relatedness
					intention	
Attitude					1.857	
Autonomy					1.709	
Competence					1.325	
COO					1.332	
Halal food						
purchase						
intention						
Relatedness					1.425	

Outer VIF Values

	VIF
Att1	2.357
Att2	3.083
Att3	2.521
Att4	2.683
Aut1	2.792
Aut3	3.002
Aut4	2.307
Aut5	2.309
C001	1.804
COO2	2.284
COO3	1.86
Comp1	1.782
Comp2	1.746
Comp3	2.1
Comp4	1.705

Pur1	1.816
Pur2	1.815
Pur3	1.908
Rel1	1.581
Rel2	2.148
Rel3	2.2
Rel4	1.778
Rel5	1.752

Path Coefficients

	Original	Sample	Standard	T Statistics	P
	Sample	Mean	Deviation	(O/STDEV)	Values
	(O)	(M)	(STDEV)		
Attitude -> Halal					
food purchase					
intention	0.336	0.335	0.070	4.801	0.000
Autonomy -> Halal					
food purchase					
intention	0.081	0.085	0.067	1.207	0.114
Competence ->					
Halal food					
purchase intention	0.195	0.196	0.056	3.465	0.000
Relatedness ->					
Halal food					
purchase intention	0.155	0.157	0.056	2.770	0.003

R Square (R2)

	R Square	R Square Adjusted (R ²
	(R^2)	Adjusted)
Halal food purchase	0.348	0.339
intention		

Predictive Relevance (Q2)

	SSO	SSE	Q^2 (=1-SSE/SSO)
Attitude	1212	1212	
Autonomy	1212	1212	
Competence	1212	1212	
Halal food purchase intention	909	688.352	0.243
Relatedness	1515	1515	

Appendix H Smart PLS Results (Moderation Analysis)

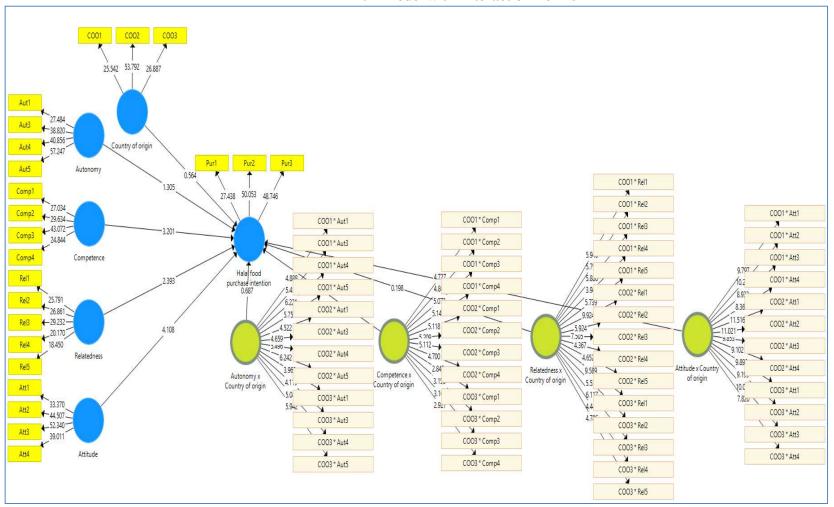
Main Effect Model (Path Coefficients)

	Attitude	Autonomy	Competence	COO	Halal food purchase intention	Relatedness
Attitude					0.328	
Autonomy					0.083	
Competence					0.188	
C00					0.042	
Halal food purchase intention						
Relatedness					0.143	

Main Effect Model (R²Values)

	R Square (R ²)	R Square Adjusted (R ² Adjusted)
Halal food purchase intention	0.349	0.338

Full Model with Interaction Terms



Full Model with Interaction Terms (Path Coefficients)

	Attitude	Attitude x	Autonomy	Autonomy x Country	Competence	Competence x Country of	Country of origin	Halal food	Relatedness x Country	Relatedness
		Country		of origin		origin	-	purchase	of origin	
		of origin		J				intention		
Attitude								0.327		
Attitude x										
Country of origin								-0.010		
Autonomy								0.086		
Autonomy x Country of										
origin								0.050		
Competence								0.186		
Competence										
x Country of origin								-0.050		
Country of										
origin								0.033		
Halal food										
purchase										
intention										

Full Model (R²Values)

	R Square (R2)	R Square Adjusted (R ² Adjusted)
Halal food purchase intention	0.352	0.332

Full Model with Interaction Terms (Bootstrapping Results)

	Original Sample (O)	Sample Mean (M)	Standard Deviation (STDEV)	T Statistics (O/STDEV)	P Values
Attitude -> Halal food purchase					
intention	0.327	0.318	0.080	4.108	0.00
Attitude x Country of origin -> Halal					
food purchase intention	-0.010	0.002	0.065	0.157	0.438
Autonomy -> Halal food purchase					
intention	0.086	0.087	0.066	1.305	0.096
Autonomy x Country of origin ->					
Halal food purchase intention	0.050	0.034	0.073	0.687	0.246
Competence -> Halal food purchase					
intention	0.186	0.188	0.058	3.201	0.001
Competence x Country of origin ->					
Halal food purchase intention	-0.050	-0.069	0.062	0.812	0.208
Country of origin -> Halal food					
purchase intention	0.033	0.032	0.059	0.564	0.286
Relatedness -> Halal food purchase					
intention	0.143	0.144	0.060	2.393	0.008
Relatednes x Country of origin ->					
Halal food purchase intention	-0.012	-0.033	0.058	0.198	0.422

LIST OF PUBLICATIONS

Journal with Impact Factor

1. **Syed, S.**, Ahmad, F. Sh., & Shah, S. R. H. (2022). Psychological needs as underlying forces of halal food purchase intention. Ahead of print in *Journal of Islamic Marketing*. (Indexed by Scopus, Web of Science (ESCI), ABDC; Q2, IF: 3.70)

Indexed Journal

1. **Syed, S.**, Ahmad, F. Sh., & Shah, S. R. H. (2022). The influence of attitude on consumers' autonomy to make halal food purchase intention: An overview of self-determination in a collectivist culture. *International Business Research*, 15(3), 75-84. (Indexed by Excellent for Research in Australia (ERA))

Non-indexed Journal

- 1. **Syed, S.,** Ahmad, F. S., & Shah, S. R. (2021). Tapping into food industry: A comparative dual-model study of religion and culture on food products' purchase intention. *Journal of Mediterranean Tourism Research*, 1(1), 1-11.
- 2. **Syed, S.,** Shah, S. R., & Ahmad, F. S. (2021). The Influence of Intrinsic Motivational Forces on Consumers' Product Purchase Intentions. *Journal of Mediterranean Tourism* Research, 1(2), 70-80.

Indexed Conference Proceedings

1. **Syed, S.,** Ahmad, F. Sh. & Shah. S. R. H. (2021). Basic psychological needs as drivers of Halal food purchase intention. Paper presented at 3rd Asia Conference on Business and Economic Studies (ACBES 2021) by *Journal of Asian Business and Economic Studies*, 27th -28th August, 2021. Ho Chi Minh City, Vietnam. (Indexed by Web of Science)